



# **User's Guide for the Animal Feeding Operation Web Application**

Version 1.4  
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# **1. Animal Feeding Operation Overview**

## ***Introducing the Animal Feeding Operation Web Application***

The Animal Feeding Operation (AFO) website <http://programs.iowadnr.gov/animalfeedingoperations/> provides web pages that allow the public to view data related to Iowa DNR's Animal Feeding Operation program. Not all animal feeding operations in Iowa are listed. Most of the facilities included in the database are larger operations that have been required to get a permit or a manure management plan. Other operations have voluntarily provided information to the DNR or have had a compliance issue. Generally, there are two types of facilities: confinements (totally roofed) or open feedlots (partially or totally unroofed). Regulations differ depending on the size, type and age of the facility. Changes to the database can only be made by authorized DNR staff.

### ***Guide Purpose***

This user's guide is meant to explain what is contained in the AFO database and how to navigate the application, but it is not meant to describe DNR regulations or procedures.

### ***Internet Browsers***

The Animal Feeding Operation Web Application was designed for use with Internet Explorer Version 7 but is compatible with most web browsers.

### ***Session time outs***

If the user has not interacted with the Web site (or database) for 30 minutes, the user's session will time out and the user may be redirected to the Home page.

### ***Time***

Within the application, hours are expressed in military time (hours are 00 to 23, 13 is 1 P.M., 14 is 2 P.M and 00 is midnight)

### ***Accuracy***

The DNR cannot guarantee the accuracy and completeness of the available information, however every effort will be made to keep the data current. Recent data is more likely to be accurate than historical information since information was imported from previous data systems that did not have quality control processes. Some of the historical data, such as animal numbers, were collected using different procedures than

those that are used today. Producers who notice inaccurate information about their operations should contact their local DNR Field office to ask for corrections.

### ***Electronic Records***

As resources permit, electronic documents will be linked to the system. Recent documents are more likely to be available than historical records. Records will be available at the central office and/or the appropriate field office. More information about DNR records can be found at <http://www.iowadnr.gov/cs/records.html> .

### ***Help***

If you have a question, send an email to [animalfeedingoperationquestions@dnr.iowa.gov](mailto:animalfeedingoperationquestions@dnr.iowa.gov). This email will be routed to the appropriate staff person for response.

### ***Glossary***

At the end of this document is a glossary of terms used within the application. Please refer to this glossary when needed.

## 2. Getting Started At The Home Page

In a web browser, go directly to the database using the following link:

<https://programs.iowadnr.gov/animalfeedingoperations/>

The Home Page, similar to that shown in Figure 1 Home Page should appear.



Figure 1 Home Page

Use the links at the top of the page to perform the following functions:

### ***Search for a facility or group of facilities:***

Click on Search at the top of the page to go to the Search Page. From the Search Page, you can search by location (in the left-hand column) or facility characteristics (in the right-hand column). The fastest way to find a facility is to type in the 5-digit Facility ID number and then click on the “Search” button near the bottom. If you don’t know the Facility ID, you can search by facility name or the owner’s name. Search results will appear at the bottom of the page. Click on the red arrow to the left of the facility you are interested in. For additional Search directions see page #.

### ***Access reports:***

Click on the Reports link at the top of the page to create summary reports. Some reports, such as the Basic AFO Report, display the number of animal feeding operations in the state, or in a particular county or watershed. Other reports list facilities that have been or are currently being reviewed. Carefully read the descriptions of the reports (starting on page #) before using the Reports function or interpreting the Reports.

## ***Log-in:***

Only DNR employees have the ability to Log-in and change information in the AFO database. The information available to the public is a subset of the data available to logged-in users. For example, logged-in users can view detailed contact information for facility owners.

## ***Get help***

The [Help](#) link will take you to a page describing basic page navigation and a link to this user manual. For additional assistance, .... Answers to the most frequently asked questions are available both for [animal producers](#) (LINK TO FAQs FOR PRODUCERS) and the [interested public](#) (LINK TO FAQs FOR PUBLIC). For more information on regulations and requirements, see the DNR's [Animal Feeding Operations](#) Web site.

## ***Global Footer***

The bottom portion of the Home page is the Global Footer. The Global Footer also appears on all the other pages. At the current time, these are the links:

[Site Policy](#) – this link takes you to the Iowa DNR policy page.

[AFO Siting Atlas](#) – this link takes you to the Iowa DNR interactive mapping site

[AFO Home](#) – this takes you to the AFO Program home page

[DNR Home](#) – this link takes you to the Iowa DNR's home page.

[State of Iowa Home](#) – this link takes you to the Iowa government's home page.

[webmaster@dnr.iowa.gov](mailto:webmaster@dnr.iowa.gov) – this email link is for the DNR Webmaster.



## **3. Search Page**

### ***Basic Search Instructions***

The Search Page allows you to find a facility or group of facilities using various search criteria. You can search by location (in the left-hand column) or facility characteristics (in the right-hand column). The fastest way to find a facility is to type in the 5-digit Facility ID number and then click on the “Search” button near the bottom. If you don’t know the Facility ID, you can search by facility name or the owner’s name. You may provide as many search criteria as you like—the more provided, the more specific the search—or you may choose not to specify any search criteria and use all the default values in which case all facilities will be returned. Search results will appear at the bottom of the page. Click on the red arrow to the left of the facility you are interested in or Print/Export the list of facilities using the “Print/Export” button on the right above the Results.


### **TIP**

If you are not certain of the facility name when searching for a facility, consider using the wildcard search (%) at the beginning of the facility name. If you search for Johnson Family Farm you get “No results were found” because the facility is actually called Johnson Family Organic Farm. If you searched for %Johnson you will see a list of facilities with the name Johnson included. Be certain to put the % immediately in front of the word you are searching for. If you include a space (% Johnson) you will likely get the “No results were found” message.

It’s best to use as little information as necessary. It may be that the name is spelled Jonson and you have typed Johnson. You may want to search for %Jo.

Be certain to click on “Clear” after doing a search before searching for another facility. If you searched for a facility in Linn County and now want to search for a facility in Ida Grove you will get the “No results were found” as there are no facilities in Ida Grove that are also in Linn County.

### ***Page Navigation***

- You can get to the search page by clicking on the link at the top of every page
- From the search page, you can go to the Facility Summary page for a particular facility by clicking on the red arrow to the left of the facility in the Results 

- From this page, you can link to the Reports or Help pages or any link in the Global Footer

The screenshot shows a web browser window titled "Site Search - Windows Internet Explorer" with the address bar displaying "https://programs.iowadnr.gov/animalfeedingoperations/FacilitySearch.aspx". The page header features the "IowaDNR Animal Feeding Operation" logo and navigation links for "Search", "Reports", "Login", and "Help". The main content area is titled "Facility Search" and contains a form with two columns of search criteria. The left column includes dropdown menus for "Field Office", "County", "City", "Township", "Tier", "Range", "Section", "HUC 8 Watershed Name", and "HUC 12 Watershed Name". The right column includes input fields for "Facility ID", "Facility Name", "Owner Name", "Operation Type", "AFO Program Category", "Animal Unit Range", "Species Type", and "Detailed Animal Type". There are "Search" and "Clear" buttons at the bottom of the form. The footer contains the text "Version 0.1.1", "Site Policy", "AFO Siting Atlas", "AFO Home", "DNR Home", "State of Iowa Home", and "webmaster@dnr.iowa.gov © Iowa Department of Natural Resources".

Figure 2 Search Page

## Search Categories

**Field Office:** Choose -- All Field Offices -- (the default) or one of the field offices in the dropdown. Making a field office selection affects the county dropdown by resetting the county list to only those counties in the selected field office (or all the counties if -- All Field Offices -- is selected) and then changing the county selection to -- All Counties --. Because of this, there is a slight pause when choosing a field office. When the field office background changes from blue to white, the county dropdown reset has completed.

**County:** Choose -- All Counties -- (the default) or one of the counties in the dropdown. The list of counties depends on the field office selection. A county may also be chosen by typing one or more of the beginning letters of a county's name.

**City:** Choose -- All Cities -- (the default) or one of the cities in the dropdown. A city may also be chosen by typing in one or more of the beginning letters of the city's name.

Township: Choose -- All Township Names -- (the default) or one of the townships in the dropdown. A township may also be chosen by typing in one or more of the beginning letters of the township's name.

Tier: Enter the two- or three-digit tier number in the textbox.

Range: Enter the one- or two- digit range number in the textbox and choose either a "W" (default) or an "E" suffix. If the range textbox is empty, the "W"/"E" suffix is ignored as a filter.

Section: Enter the one- or two-digit section number in the textbox.

### **HUC Watersheds**

HUC stands for Hydrologic Unit Code, which is a system that identifies and names individual watersheds (land areas draining to a stream, river, or lake). Watersheds of major rivers in Iowa (HUC 8 watersheds) are subdivided into subwatersheds (HUC 12 watersheds) associated with smaller tributaries that drain to the rivers. This database allows the user to identify AFOs that are located within these watersheds.

HUC 8 Watershed Name: Choose -- All HUC 8 Watershed Names -- (the default) or one or more watershed names in the dropdown-multiselect. To select one or more names, click on the drop down box and check the desired checkboxes from the dropdown list and then click OK (your selection(s) will not be in effect unless you click OK). The list of names you selected will appear as comma-separated text in the read-only control. To reselect -- All HUC 8 Watershed Names --, click on the control and click Clear.

Making a HUC 8 watershed name selection affects the HUC 12 watershed name dropdown-multiselect by resetting the HUC 12 list to only those HUC 12s in the HUC 8 watershed (or to -- All HUC 12 Watershed Names -- if -- All HUC 8 Watershed Names -- are selected). Because of this, as with field office selection above, there is a slight pause when selecting a HUC 8 watershed name.

HUC 12 Watershed Name: Unless one or more HUC 8 watershed names has been selected, the only choice here is -- All HUC 12 Watershed Names -- (the default). In this case, the dropdown list is empty (click somewhere outside the control to close it). Once one or more HUC 8 watershed names has been the selected, the HUC 12 watershed names will be populated as necessary and you can select one or more names or clear the HUC 12 Watershed Name control in a similar manner to the HUC 8 Watershed Name control above.

Because of the interaction between HUC 8 and HUC12, there is a slight pause when selecting a HUC 12 watershed name.

Facility ID: Enter a five-digit facility ID in the textbox. This is a unique number assigned by the DNR. ***If you enter a five-digit facility ID all other search criteria will be ignored.***

Facility Name: Enter all or the first part of a facility name in the textbox. You may also prefix the text with a “%” to look for the text anywhere in the facility name.

Owner Name: Enter all or the first part of an owner’s name (last name or business name) in the textbox. You may also prefix the text with a “%” to look for the text anywhere in the owner’s name.

### **Animal Feeding Operations**

#### *Definitions:*

*“Animal feeding operation”* is defined in the Iowa Administrative Code as a lot, yard, corral, building, or other area in which animals are confined and fed and maintained for 45 days or more in any 12-month period, and all structures used for the storage of manure from animals in the operation. Except as required for an NPDES permit required pursuant to the federal Water Pollution Control Act, 33 U.S.C. Chapter 26, as amended, an animal feeding operation does not include a livestock market. Iowa DNR regulates two types of operations: open feedlots and confinements.

*“Open feedlot operation”* means an unroofed or partially roofed animal feeding operation if crop, vegetation, or forage growth or residue is not maintained as part of the animal feeding operation during the period that animals are confined in the animal feeding operation.

*“Confinement feeding operation”* means an animal feeding operation in which animals are confined to areas which are totally roofed.

#### *Directions:*

Operation Type: Choose -- All Operation Types -- (the default) or one of the operation types in the dropdown. All active facilities with the type of operation chosen will be displayed regardless of whether the operation’s status is “active” or “inactive.”

### **AFO Program Categories**

Exact animal numbers for a facility may not be known or tracked accurately. Therefore, a program category was assigned in the old AFO database (pre-2009) to help determine what regulations applied to an operation. Operations may fall into multiple program categories. However, the old AFO database only allowed users to assign one category per operation. These search categories should be used with caution.

Open feedlots may fall into one or both of the following categories: “small open feedlot” or “permit required.” Permit required refers to the construction permit issued by the DNR and not the NPDES permit. Open feedlots generally are required to get a construction permit from the DNR when they have a capacity of 1,000 animal units or

more. In some instances, open feedlots with less than 1,000 animal units may be required to have a construction permit.

Confinement operations can be assigned to one or more of the following categories: SAFO (small animal feeding operation), MMP required (manure management plan required), or Permit Required. Confinement operations with 500 or fewer animal units are not required to submit MMPs or apply for a construction permit unless they are constructing an earthen (unformed) basin or lagoon. All confinement operations with more than 500 animal units and constructed or expanded after 5/31/85 are required to submit MMPs annually. Confinement operations that plan to hold 1,000 or more animal units are required to obtain construction permits in addition to submitting an MMP. The rules regarding these requirements have changed over time, so it is possible that an operation was constructed prior to the current requirements. Therefore, not all operations with more than 1,000 animal units will have a construction permit.

Not all small open feedlots and SAFOs in the state are tracked in the AFO database.

AFO Program Category: Choose -- All AFO Program Categories -- (the default) or one of the categories in the dropdown.

Animal Unit Range: Enter a numeric range to filter on the number of animal units in the two text boxes. If you enter a number only in the left-most textbox, the range will be from that number and higher. If you enter a number only in the right-most textbox, the range will be from that number and lower. Animal units are calculated from the number of head of each animal species. The animal units field allows up to three digits after the decimal point.

Examples: In order to find all of the facilities (operations?) with less than 1,000 animal units, the user should type 999.999 in the right-most textbox. To find all of the facilities (operations?) with more than 1,000 animal units, the user should type 1000.001 in the left-most text box. To find all of the facilities (operations?) with 1,000 animal units or more, the user should type 1,000 in the left-most text box.

Animal units recorded in the database generally represent the maximum capacity of the operation as limited by size or legal requirements. Actual animal numbers usually fluctuate with market conditions and time of year.

Species Type: Choose -- All Species Types -- (the default) or one of the species types in the dropdown. The species type selection affects the detailed animal type list so there is a slight pause when selecting a species type.

Detailed Animal Types: Choose -- All Animal Types -- (the default) or one of the animal types in the dropdown.

Search: Click this button to perform the search.

If there are any field validation errors the search does not occur.

If no facilities match the criteria, a “no search results” message appears, as in Figure 3 No Search Results (click the OK button to return to the Facility Search page).

If one or more facilities match the search criteria, the results appear underneath the Search button in a table, as in Figure 4 Search Results.

Clear: Click this button to remove all the search criteria.

## No Search Results

The screenshot displays the 'IowaDNR Animal Feeding Operation' web interface. The 'Facility Search' section is active, showing various search criteria fields such as Field Office, County, City, Township, Tier, Range, Section, HUC 8 Watershed Name, HUC 12 Watershed Name, Facility ID, Facility Name, Owner Name, Operation Type, AFO Program Category, Animal Unit Range, Species Type, Animal Type, Facility Status, Construction Permit#, MP Month Due, Contact Name, Feature, Review Type, Application or Plan Type, Review Status, Action/Document Type, and Action/Doc Date Range. A modal dialog box in the center of the screen displays the message 'No results were found' with an 'Ok' button. The 'Search' button is visible at the bottom of the search criteria section. The footer includes 'Version .01', 'Site Policy', 'State of Iowa Home', 'DNR Home', and the email 'webmaster@dnr.state.ia.us'.

Figure 3 No Search Results

HUC 12 Watershed Name:

**4760 Results** **E**

	Facility ID	Facility Name	*	City	Section	Tier	Range	Township Name	County	Owner	MMP Month Due
	56219	Countryside Feed & Cattle Inc. #1		Bedford	01	067	03W		Woodbury	Jay Lischer	N/A
	56222	G & H Farms		Maurice	01	094	04W	Sherman	Sioux	Howard Bomgaars	July
	56228	Schut Feedlot Inc. ss		Sioux Center	02	095	04W	West Branch	Sioux	Wayne Schut	
	56229	White Bros. Dairy		Bloomfield	03	069	01W	West Grove	Davis		
	56233	Loes Feeding Yards		Cascade	04	086	00W	Washington	Jones	Mark Loes	
	56237	Onken Feedlots		Carroll	02	085	03W	Sheridan	Carroll		
	56244	Steele Land & Livestock		Anita	01	076	03W	Eureka	Adair	Doug Steele	
	56245	A To Z Feeders		Atlantic	09	076	03W	Washington	Cass	A Feeders Zellmer	
	56248	A M R Corporation		Carroll	02	083	03W	Pleasant Valley	Carroll		N/A
	56251	Van Meter Feedyard		Guthrie Center	03	080	03W	Union	Guthrie		

<< 1 2 3 4 5 6 >>>

\* Old Facility Name match.

Figure 4 Search Results shows an example where the search found 4,760 matching facilities (A). The table shows up to 10 facilities per page and provides pagination controls when multiple pages are required (B). Clicking << shows the first page; clicking >> shows the last page; clicking < (not shown here) shows the current page - 10, clicking > shows the current page + 10 and clicking on one of the numbers shows that page number.

- Facility ID
- Facility Name
- Old Name Indicator (C)
  - An asterisk indicates that name search criteria matched on one of the facility's prior names and not the facility's current name.
- City
- Section
- Tier
- Range
- Township

- County
- Owner
- MMP or NMP Month Due

**Sorting the columns:** You can sort the rows by clicking on a field's column header. The first click will sort in ascending; subsequent clicks will alternate descending and ascending.

: Each row/facility has a red arrow  (D). Click the arrow to go to that facility's Facility Summary Page.

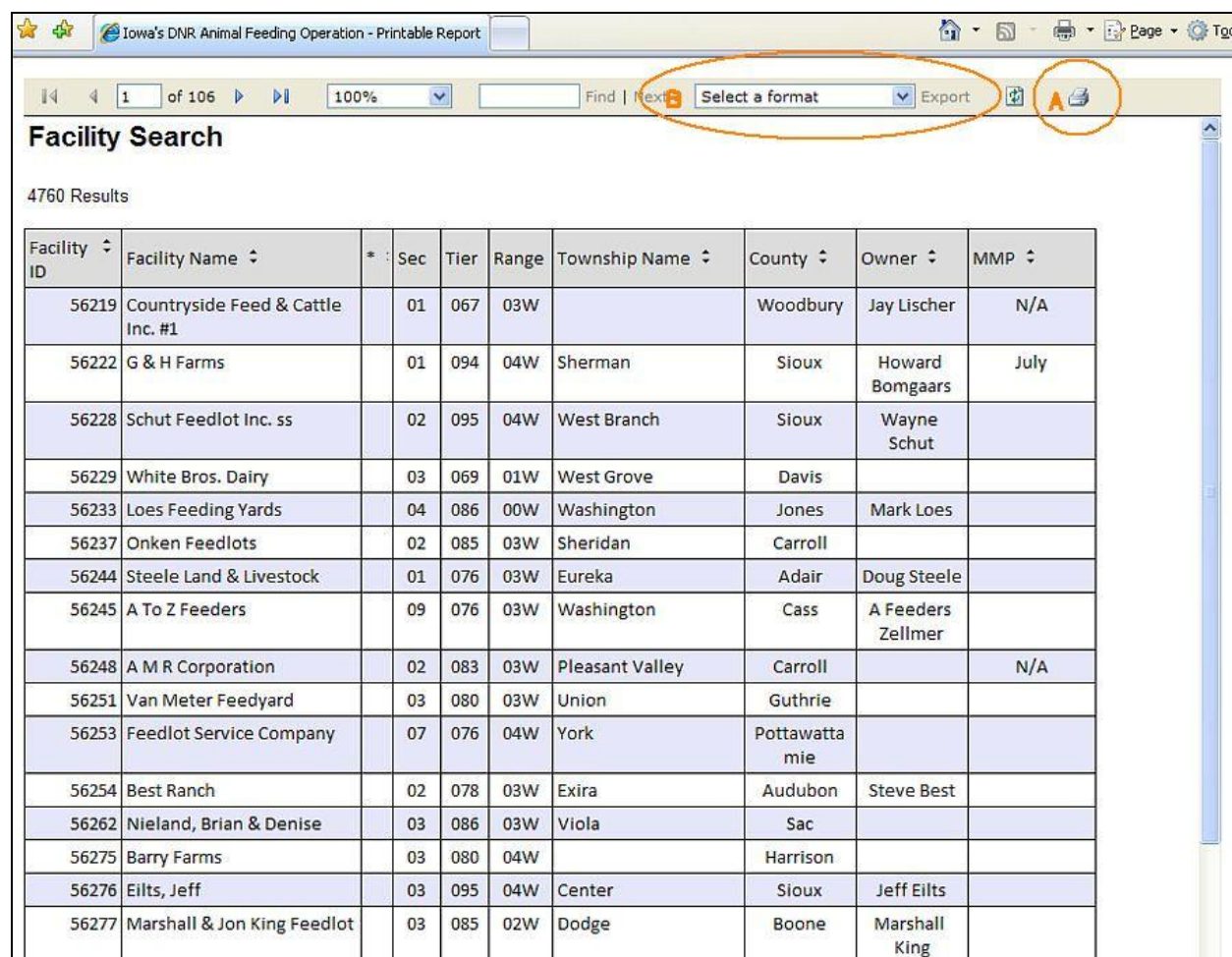
### ***Print Search Results***

The Print/Export button will take you to a new window from which you can choose to print or export the search results into another file format, such as Excel or PDF. DNR highly recommends exporting the report to Excel because it is difficult to view the entire report on one page from the website (due to formatting that is beyond our control).

**HINT:** If a new page does not open after you have clicked on the "Print/Export" button, then you will need to turn off the Pop-up blocker on your browser. For those using Internet Explorer as their browser, the Pop-up blocker can be turned off by going to the Tools menu at the top of your page. See Figure 5 Facility Search Report.



## Facility Search Report



Facility ID	Facility Name	*	Sec	Tier	Range	Township Name	County	Owner	MMP
56219	Countryside Feed & Cattle Inc. #1		01	067	03W		Woodbury	Jay Lischer	N/A
56222	G & H Farms		01	094	04W	Sherman	Sioux	Howard Bomgaars	July
56228	Schut Feedlot Inc. ss		02	095	04W	West Branch	Sioux	Wayne Schut	
56229	White Bros. Dairy		03	069	01W	West Grove	Davis		
56233	Loes Feeding Yards		04	086	00W	Washington	Jones	Mark Loes	
56237	Onken Feedlots		02	085	03W	Sheridan	Carroll		
56244	Steele Land & Livestock		01	076	03W	Eureka	Adair	Doug Steele	
56245	A To Z Feeders		09	076	03W	Washington	Cass	A Feeders Zellmer	
56248	A M R Corporation		02	083	03W	Pleasant Valley	Carroll		N/A
56251	Van Meter Feedyard		03	080	03W	Union	Guthrie		
56253	Feedlot Service Company		07	076	04W	York	Pottawattamie		
56254	Best Ranch		02	078	03W	Exira	Audubon	Steve Best	
56262	Nieland, Brian & Denise		03	086	03W	Viola	Sac		
56275	Barry Farms		03	080	04W		Harrison		
56276	Eilts, Jeff		03	095	04W	Center	Sioux	Jeff Eilts	
56277	Marshall & Jon King Feedlot		03	085	02W	Dodge	Boone	Marshall King	

Figure 5 Facility Search Report

To print: Click on the printer icon (A) to print report.

To export: Select a format (B), click export and follow any further instructions. The available formats are:

- XML: A flexible text format that will allow you to import the information into other sources. Such as MS word, Database, etv
- CSV : Comma separated values
- TIFF (picture): Tagged Image File Format. Exports it as a picture
- PDF: Portable Document Format. Exports it in a PDF format
- Archived web page
- Excel: Export into MS Excel format

## 4. Facility Summary Page

The Facility Summary page shows a summary of information about the facility and provides links to more detailed information. The summary information may also be printed. The Facility Summary Page is basically the hub page for working with a facility.

The summarized information includes:

- Site Header information (Facility ID, name, address, etc)
- Current Contacts
- Operations
- Animal Data Summary
- Feature Summary
- Nutrient Management and Construction Reviews
- Construction Reviews
- NPDES Permits
- Compliance and Complaints
- Environmental Review
- Fee Summary

### **Page Navigation**

- From any page containing a Site Header
- To an Operation Detail page from a row link →
- To an Animal Numbers page from a row link →
- To a Feature Detail page from a row link →
- To a Management Plan and Construction Review page from a row link →
- To a Construction Review page from a row link →
- To the DNR Field Office Compliance system from a row link →
- To a GeoReview page from a row link →
- To any page with links in the Site Header
- To any page with links in the Global Header

### **Site Header**

**Every page related to a specific facility has a Site Header.** See Figure 6 Site Header

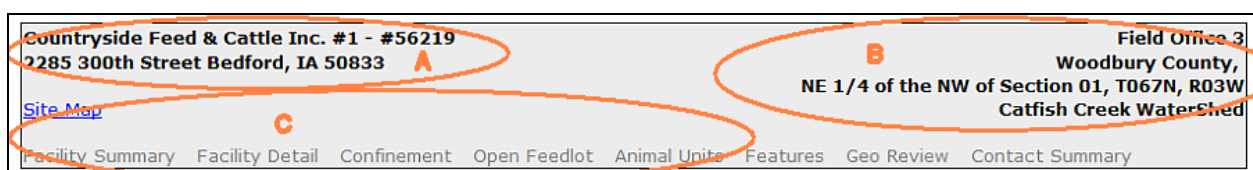


Figure 6 Site Header

## Site Information

Facility Name: (A). Example: "Countryside Feed & Cattle Inc. #1".

Facility ID: (A). Example: "56219".

Address: 911 Address (A). Example: "2285 300th Street Bedford, IA 50833".

Field Office: (B). Example: "Field Office 3".

County: (B). Example: "Woodbury County".

Legal Description: (B). Example: "NE 1/4 of the NW 1/4 of Section 01, T067N, R03W".

Watershed Name: HUC 12 Watershed Name (B). Example: "Catfish Creek WaterShed".

## Site Links

Site Map: The Site Map links to the DNR's Facility Explorer, an external page (i.e. outside the AFO web application) that shows a map of the facility in a new browser window.

Facility Summary: Facility Summary links to the Facility Summary Page.

Facility Detail: Facility Detail links to the

Facility Detail Page.

Confinement: Confinement links to the Operation Detail Page and is only visible if the facility has a confinement operation.

Open Feedlot: Open Feedlot links to the Operation Detail Page and is only visible if the facility has an open feedlot operation.

Animal Units: Animal Units links to the Animal Numbers page.

Features: Features links to the Feature Detail page.

Geo Review: Geo Review links to the Geo Review page.

## ***Current Contacts Summary***

The Facility Summary table shows the facility's current contacts.




Current Contacts		
	Name	Role
	Albert Covey	owner
	Business Name	contact
	Jay Lischer	owner

Figure 7 Facility Summary Page - Current Contacts Summary

Each row in the table represents a current contact and shows these fields:

- Name
  - The contact's first and last name (if a person) or the contact's business name (if a business).
- Role
  - The role of the contact.

## ***Operations Summary***

The Facility Summary table shows a summary of the facility's operations and provides for adding an operation.



Operations <span>Add</span>		
	Type	Total Current AU Capacity
	Confinement ---Inactive---	0
	Open Feedlot	0

Figure 8 Facility Summary Page - Operations Summary (Two Operations)



Operations <span>Add</span>		
	Type	Total Current AU Capacity
	Confinement	0

Figure 9 Facility Summary Page - Operations Summary (One Operation)

Each row in the table represents an operation type at the facility and shows these fields:

-  Link to the Operation Detail page for that operation.
- Type
  - The operation type, either confinement or open feedlot. An inactive operation is italicized and has an *--Inactive--* suffix.
- Total Current AU Capacity
  - The total animal unit capacity currently in the operation.

## Animal Data Summary

The Facility Summary table shows a summary of the facility's animal data per the facility's operation type(s).







Animal Data Summary <span>Add</span>				
	Animal Type	Head	AU	Operation Type
	Cattle Beef Finishing	450	450.00	Open Feedlot
	Chicken Layer or Broiler	50	0.13	Open Feedlot
	Cattle Dairy Heifer & Hut Calves	50	70.00	Open Feedlot
	Horses	2	4.00	Open Feedlot
	Swine Wean to Finish	500	200.00	Open Feedlot

Figure 10 Facility Summary Page - Animal Data Summary

Each row in the table represents an animal type in the operation type at the facility and shows these fields:

-  Link to the Animal Numbers page for the animal type contained in the operation type.
- Animal Type
  - The animal type contained in the operation type.
- Head
  - The number of head for the animal type contained in the operation type.
- AU
  - The number of animal units for the animal type contained in the operation type.
- Operation Type
  - The operation type containing the animal type.

## Feature Summary

The Feature Summary table shows a summary of the facility's features per the facility's operation type(s).







Feature Summary (Storage, Production, Sampling) <span>Add</span>				
	Feature Type	Feature	Date Authorized	Operation Type
	Storage Structure	AT System		
	Storage Structure	AT System		
	Production Area	Confinement Building		Confinement
	Production Area	Feedlot		Open Feedlot
	Storage Structure	Solids Settling		Open Feedlot

Figure 11 Facility Summary Page - Feature Summary

Each row in the table represents a feature at the facility and shows these fields:

-  Link to the Feature Detail page for that feature.
- Feature Type
- Feature
- Date Authorized
- Operation Type
  - The operation type containing the feature.

## Nutrient Management and Construction Reviews Summary

This table shows a summary of the facility's management plans and provides for adding a management plan. **Note: Only records that have an action of Management Plan received or NOV sent within the last 10 years will be shown here.**







Nutrient Management and Construction Reviews (Field Office)					Add
	Plan Type	Status	Date Approved	Operation Type	
	MMP	Under Review		Confinement	
	Pindex MMP -short form	Approved	03/18/2009	Confinement	
	Pindex MMP -short form	Approved	04/02/2008	Confinement	
	Pindex MMP -original	Approved	04/01/2007	Confinement	
	Pindex MMP -original	MMP Reminder Letter Sent	03/23/2007	Confinement	

Figure 12 Facility Summary Page - Nutrient Management and Construction Reviews Summary

Each row in the table represents a management plan and shows these fields:

-  Link to the Management Plan and Construction Review page for that plan.
- Plan Type
- Status
- Date Approved
- Operation Type

## Construction Reviews Summary

Figure 13 shows a summary of the facility's construction reviews.







Construction Reviews (Central Office)						Add
	Application Type	Status	Days In House	Issued Date	Operation Type	
	Confinement - Formed	Under Review	0		Confinement	
	Confinement - Formed	Withdrawn	56		Open Feedlot	
	Open Feedlot - Conventional	Approved	0		Open Feedlot	
	As-Built	Approved	0		Open Feedlot	
	As-Built		0		Open Feedlot	

Figure 13 Facility Summary Page - Construction Reviews Summary

Each row in the table represents a construction review and shows these fields:

-  Link to the Construction Review page for that review.
- Application Type
- Status
- Days In House (at DNR for review)
- Issued Date
- Operation Type

## NPDES Permits Summary

This table shows a summary of the facility's NPDES (National Pollutant Discharge Elimination System) permits. This information is being displayed from the One Stop application.

NPDES Permits				
	NPDES Permit Number	Status	Issued Date	Expiration Date
	NA			

Figure 14 Facility Summary Page - NPDES Permits Summary

Each row in the table represents an NPDES permit for the facility and shows these fields:

- NPDES Permit Number
- Status
- Issued Date
- Expiration Date

## Compliance and Complaints Summary

This table shows a summary of the field office activities related to this facility according to the DNR Field Office Compliance system.



Compliance and Complaints					
	Staff Action	Date	Action Taken	Staff Member	Operation Type
	Assistance / Assistance #4	05/01/2009	Compliance Meeting	Cindy Garza	Confinement

Figure 15 Facility Summary Page - Compliance and Complaints Summary

Each row in the table represents an action taken by field office staff and shows these fields:

-  Link to the DNR Field Office Compliance system for more detailed information regarding this facility. It doesn't matter which row's link is clicked.
- Staff Action
- Date
- Action Taken
- Staff Member

## Environmental Review (Geo Review) Summary

This table shows a summary of the environmental review (Geo Review) actions associated with this facility. Many facilities do not need a review, so not every facility will have entries for this table.









Environmental Review (GeoReview)			
	Review Type	Date	Operation Type
	Soils Investigation Required	01/23/2003	Confinement/Open Feedlot
	Soils Investigation Required	01/07/2009	Confinement/Open Feedlot
	Well Variance Requested	01/01/2009	Confinement/Open Feedlot
	Well Variance Recommendation	01/01/1970	Confinement/Open Feedlot
	Bedrock Separation Confirmed	02/03/2009	Confinement/Open Feedlot

Figure 16 Facility Summary Page - Environmental Review Summary

Each row in the table represents a review associated with an operation type at the facility and shows these fields:

-  Link to the Geo Review Page for more detailed information. It doesn't matter which row's link is clicked.
- Review Type
- Date
- Operation Type

## Fee Summary

This table shows the summary of all the fees associated with the facility's management plans and construction reviews.






Fee Summary			
	Fee Action Type	Amount	Date Received
	Compliance Fee	203.70	08/31/2007
	Compliance Fee	203.70	12/08/2005
	Indemnity Fee Received	135.80	12/08/2005
	MMP Filing Fee	250.00	12/08/2005
	Compliance Fee	166.50	08/31/2004

Figure 17 Facility Summary Page - Fee Summary

Each row in the table represents a fee action associated with the facility and shows these fields:

- Fee Action Type
- Amount
- Date Received

## Facility Summary Report

**Print:** The Print button at the bottom of the summary page generates a Facility Summary Report (see Figure 18 Facility Summary Report) in another browser window where it can be printed, exported, etc.

Countryside Feed & Cattle Inc. #1 - #56219 2285 300th Street Bedford, IA 50833	<b>Field Office 3</b> <b>Woodbury County,</b> <b>NE 1/4 of the NW of Section 01, T067N, R03W</b> <b>Catfish Creek WaterShed</b>
---	--

#### Facility Summary

Current Contacts	
Name	Role
Albert Covey	owner
Business Name	contact
Jay Lischer	owner

Operations	
Type	Total Current AU
Confinement ---Inactive---	0
Open Feedlot	0

Animal Detail Summary			
Animal Type	Head	AU	Operation Type
Cattle Beef Feeder Calf	100	100	Confinement
Cattle Beef Feeder Calf	1000000000	1000000000	Confinement
Cattle Beef Feeder Calf	123	123	Confinement
Cattle Beef Finishing	10	10	Confinement
Chicken Layer or Broiler	10	0.09999999	Confinement
Chicken Layer or Broiler	10	0.09999999	Confinement
Cattle Dairy Heifer & Hut Calves	10	10	Confinement
Horses	10	20	Confinement
Cattle Beef Feeder Calf	10	10	Open Feedlot
Cattle Beef Feeder Calf	10	10	Open Feedlot
Cattle Beef Feeder Calf	1000	1000	Open Feedlot
Horses	20	40	Open Feedlot
Swine Gestation (& Boars)	2	0.8	Open Feedlot

Feature Summary (Storage, Production, Sampling)			
Feature Type	Feature	Date Authorized	Operation Type
Production Area	Confinement Building	01/29/2009	Confinement
Production Area	Confinement Building	01/29/2009	Confinement
Production Area	Confinement Building	01/29/2009	Confinement
Production Area	Confinement Building	02/02/2008	Confinement
Production Area	Feedlot	01/01/2008	Confinement/Open Feedlot

Construction Reviews (Central Office)				
Application Type	Status	Days in House	Issued Date	Operation Type
Confinement - Earthen	Approved	13		Confinement
Confinement - Formed	Withdrawn	-392		Open Feedlot
Open Feedlot - Conventional	Approved	0		Open Feedlot
As-Built	Approved	0		Open Feedlot
As-Built		0		Open Feedlot
As-Built	Under Review	0		Open Feedlot
As-Built	Under Review	31		Open Feedlot
Confinement - Earthen	Withdrawn	0		Open Feedlot
As-Built	Approved	0		Open Feedlot

Figure 18 Facility Summary Report

## 5. Facility Detail Page

The Facility Detail page allows you to view detailed facility information.

The facility detail information (some is read-only) includes:

- Operation Type
- NPDES ID
- First User/Date
- Second User/Date
- Facility Name
- MP Month Due
- Tier Ranking
- Active
- 911 Address
- Legal Description
- Watershed

### ***Page Navigation***

- From any page containing a Site Header
- To any page with links in the Site Header
- To any page with links in the Global Header

### ***Facility Name History Section***

This section allows you to view the facility's former names (if any). See Figure 19 Facility Detail (Edit Mode) Facility Name History Section.

Facility Name History		
Facility Name	Date Changed	User
R & L Cattle Co.	12/24/2003	mjohnso1
Countryside Feed & Cattle, Inc. #1	12/09/2008	User
Countryside Feed & Cattle, Inc.	05/17/2004	amanz

**Figure 19 Facility Detail (Edit Mode) Facility Name History Section**

Each row in the table represents change of names for the facility and shows these fields:

- Facility Name: The former facility name.
- Date Changed: The date the facility was renamed.
- User: The user who edited the name.

## Facility Detail Report

The print button in the top right corner of the **Error! Reference source not found.** (see **Error! Reference source not found.**) produces a Facility Detail report of the information displayed (see Figure 20 Facility Detail Report).

1 of 1
100%
Find | Next
Select a format
Export

Countryside Feed & Cattle Inc. #1 - #56219
Field Office 3  
2285 300th Street Bedford, IA 50833
Woodbury County,  
NE 1/4 of the NW of Section 01, T067N, R03W  
Catfish Creek WaterShed

Facility Detail

Operation Type	NPDES ID	First User/Date	Second User/Date
Confinement/Open Feedlot	NA	Load - 10/21/2008	Administrator - 02/10/2009

Operation Type	MP Month Due	Tier Ranking	Active
Countryside Feed & Cattle Inc. #1	N/A	UnAssigned	Y

911 Address:	Street	City	State	Zip
	2285 300th Street	Bedford	Iowa	50833

County	Township Name	Tier	Range	Section	1/4 Section	1/4 1/4 Section
Legal Desc: Woodbury		067	03W	01	NE	NW

HUC 8	HUC 12
Watwashed: Apple-Plum - 07060005	Catfish Creek - 070600050102

Facility Name History

Facility Name	Date Changed	User
R & L Cattle Co.	12/24/2003	mjohnso1
Countryside Feed & Cattle, Inc. #1	12/09/2008	User
Countryside Feed & Cattle, Inc.	05/17/2004	amanz

Comments

Notes	First User/Date	Second User/Date
This is another test.	User - 03/23/2009	User - 03/23/2009
This is a second test	User - 12/09/2008	User - 12/09/2008
This is a test	User - 12/09/2008	User - 12/09/2008

Figure 20 Facility Detail Report

## **6. Operation Detail Page**

The Operation Detail page allows you to view a facility's operation types.

A facility may have one or two operation types: Confinement and/or Open Feedlot.

The Operation Detail page has information regarding:

- Operation field controls
- Animal Summary for the operation
- Construction Review Summary for the operation
- Management Plan and Construction Review Summary for the operation
- Geo Review Summary for the operation
- Feature Summary for the operation

The information may also be printed.

### ***Page Navigation***

- From a Facility Summary page Operations row link ➡
- From any page with links in the Site Header
- To any page with links in the Site Header
- To any page with links in the Global Header (View mode)
- To a Construction Review page from a row link ➡
- To a Management Plan and Construction Review page from a row link ➡
- To a Geo Review page from a row link ➡
- To a Feature Detail page from a row link ➡

### ***Operation Detail Field Controls***

Operation Type: The Operation Type determines which AFO Program Categories are available.

AFO Program Categories: One or more program categories may apply to a given operation. Currently, the choices, depending on Operation Type, are:

- Operation Type Confinement
  - Construction permit required
  - MMP required
  - SAFO
- Operation Type Open Feedlot
  - Permit required
  - Small



**Discharge:** To date (January 2010), no facilities have been designated as “discharging”. AFOs that do discharge or have the potential to discharge may be required to get NPDES permits. Default is N/A. Currently, the choices are N/A, Yes, No. This field is related to the Federal rules regarding AFOs.

**Active:** The operation is active when checked. Operations that close or indicate to the DNR that they are currently not operating will not be deleted from the system. Instead, they will be marked as inactive and will not be counted in reports.

### Animal Summary For This Operation Table

Each row in the table represents an animal type in the operation and shows these fields:


- Animal Type
- Head
- Calculated Weight
  - Number of Head X Weight Multiplier
- Authorized AU
  - Authorized Animal Units

Construction Review Summary For This Operation				
	Application Type	Status	Days In House	Issued Date
↺	Confinement - Earthen	Approved	21	
↺	Confinement - Formed	Withdrawn	-392	
↺	Open Feedlot - Conventional	Approved	0	
↺	As-Built	Approved	0	
↺	As-Built		0	
MP and Construction Review Summary (Field Office) For This Operation				
	Plan Type	Status	Date Approved	
↺	MMP	MMP Reminder Letter Sent		
↺	200A	Withdrawn		
↺	200A	Withdrawn		
↺	MMP	MMP Reminder Letter Sent	03/23/2009	
Geo Review Summary For This Operation				
	Review Type			Date
↺	Soils Investigation Required			01/23/2003
↺	Soils Investigation Required			01/07/2009
↺	Well Variance Requested			01/01/2009
↺	Well Variance Recommendation			01/01/1970
↺	Bedrock Separation Confirmed			02/03/2009

Figure 21 Operation Detail


### **Construction Review Summary For This Operation Table**

Each row in the table represents a construction review done by DNR's permitting engineers for the operation and shows these fields:

-  Go to the Construction Review page for this row
- Application Type
- Status
- Days In House
- Issued Date


### **MP and Construction Review Summary (Field Office) For This Operation Table**

Each row in the table represents a management plan and/or construction review done by DNR's field office staff for the operation and shows these fields:






-  Go to the Management Plan and Construction Review page for this row
- Plan Type
- Status
- Date Approved

### **Geo Review Summary For This Operation Table**

Each row in the table represents an action associated with a geological and/or environmental review for the operation and shows these fields:

-  Go to the Geo Review page for this row
- Review Type
- Date



Feature Summary For This Operation			
	Feature Type	Feature	Date Authorized
	Production Area	Confinement Building	01/29/2009
	Production Area	Confinement Building	01/29/2009
	Production Area	Confinement Building	01/29/2009
	Production Area	Confinement Building	02/02/2008
	Production Area	Feedlot	01/01/2008


**Notes**

Comments			
Notes	First User/Date	Second User/Date	
test comment	Administrator - 12/12/2008	Administrator - 12/12/2008	

Figure 22 Operation Detail (-

### Feature Summary For This Operation Table

Each row in the table represents a feature of the operation and shows these fields:

-  Go to the Feature Detail page for this row
- Feature Type
- Feature
- Date Authorized

## Operation Detail Report Sample

Countryside Feed & Cattle Inc. #1 - #56219 2285 300th Street Bedford, IA 50833		Field Office 3 Woodbury County, Sioux City TownShip NE 1/4 of the NW of Section 01, T067N, R03W Catfish Creek WaterShed
---	--	--

### Operation Detail

<b>Operation Type</b>	<b>AFO Program Categories</b>	<b>Discharge</b>	<b>Active</b>
Open Feedlot	permit required	N/A	Y

Animal Summary for this Operation			
Animal Type	Head	Calculated Weight	Authorized AU
Cattle Beef Feeder Calf	10	20	10
Cattle Beef Feeder Calf	10	3000	10
Cattle Beef Feeder Calf	1000	300000	1000
Horses	20	20000	40
Swine Gestation (& Boars)	2	4.6	0.8
Total Current Authorized Animal Units:			1060.8

Construction Review Summary for this Operation			
Application Type	Status	Days in House	Issued Date
Confinement - Earthen	Approved	21	
Confinement - Formed	Withdrawn	-392	
Open Feedlot - Conventional	Approved	0	
As-Built	Approved	0	
As-Built		0	
As-Built	Under Review	0	
As-Built	Under Review	31	
Confinement - Earthen	Withdrawn	0	
As-Built	Approved	0	
As-Built	Authorized to Use	0	

Figure 23 Operation Detail Report - Part I

Construction Review Summary for this Operation			
Application Type	Status	Days in House	Issued Date
Confinement - Earthen	Approved	21	
Confinement - Formed	Withdrawn	-392	
Open Feedlot - Conventional	Approved	0	
As-Built	Approved	0	
As-Built		0	
As-Built	Under Review	0	
As-Built	Under Review	31	
Confinement - Earthen	Withdrawn	0	
As-Built	Approved	0	
As-Built	Authorized to Use	0	
As-Built	Under Review	-67	
As-Built	Authorized to Use	14	
Confinement - Formed	Under Review	12	

MP and Construction Review Summary (Field Office) for this Operation		
Plan Type	Status	Date Approved
MMP	MMP Reminder Letter Sent	
200A	Withdrawn	
200A	Withdrawn	
MMP	MMP Reminder Letter Sent	03/23/2009

Geo Review Summary for this Operation	
Review Type	Date
Soils Investigation Required	01/23/2003
Soils Investigation Required	01/07/2009
Well Variance Requested	01/01/2009

Figure 24 Operation Detail Report - Part II

## 7. Animal Numbers

The Animal Numbers page allows you to view animal information related to a facility's operation.

The Animal Numbers page contains:

- Animal Number field controls
- Animal Number summary by animal type for the entire facility
- Animal Unit summary information
- Animal summary information
- History of Animal Numbers changes

The information may also be printed.

## Page Navigation

- From a Facility Summary page Animal Data Summary row link ➡
- To any page with links in the Site Header
- To any page with links in the Global Header

Print: The Print button generates an Animal Numbers Report (see Figure 26 Animal Numbers Report Sample) in another browser window where it can be printed, exported, etc.

Operation Totals			Open Feedlot		Confinement		Facility Totals	
	Open Feedlot	Confinement	Animal Units	Feedlot Weight	Animal Units	Confinement Weight	Animal Units	Weight
Current Authorized AU	150	0						
Proposed AU Change	14	0						
Total AU If Authorized	164	0						

Species Type	Animal Units	Feedlot Weight	Animal Units	Confinement Weight	Animal Units	Weight
Beef Cattle	150.0000	45000.0	0.0000	0.0	150.0000	45000.0000
Dairy Cattle	14.0000	9000.0	0.0000	0.0	14.0000	9000.0000
Horses	2.0000	1000.0	0.0000	0.0	2.0000	1000.0000

Animal Unit History									
Associated Operation		Animal Information							
O/C	Species Type	Detailed Animal Type	Head	Animal Units	Wght Mult	Calc. Wght	Status	User	Date Changed
O	Beef Cattle	Cattle Beef Feeder Calf	50	50	300	15000	Approved	User	04/01/2009
O	Beef Cattle	Cattle Beef Feeder Calf	100	100	300	30000	Approved	User	04/01/2009

**Notes**

Comments			
Notes	First User & Date	Last User & Date	
Miscount on feeder calf population.	User - Mar 31 2009 9:56AM	User - Mar 31 2009 9:56AM	

Figure 25 Animal Numbers - Part II

### **Operation Totals Table**

The Operation Totals table (see A in Figure 25 Animal Numbers - Part II) shows a breakdown of Animal Units by operation type and status. The number of authorized (status of approved) Animal Units and (status of) proposed Animal Units per Operation is displayed, along with facility totals. No Animal Units with a status of Denied/Withdrawn are included.

Rows:

- Current Authorized AU row (status = Approved)
- Proposed AU Change (status = Proposed)
- Total AU If Authorized row (status = Approved or Proposed)

Columns in each row:

- Open Feedlot
- Confinement
- Facility Totals (Open Feedlot + Confinement)

### **Species Type Table**

The Species Type table (see B in Figure 25 Animal Numbers - Part II) shows a breakdown of Animal Units and Weight by operation type and species type. Each species is displayed broken down by operation type. All Animal Units entries are included, regardless of status.

Rows:

- Each species found in the facility has a row.

Columns:

- Species
- Open Feedlot Animal Units
- Open Feedlot Weight
- Confinement Animal Units
- Confinement Weight
- Facility Totals Animal Units
- Facility Totals Weight

### **Animal Unit History Table**

This table contains a history of all changes made to Animal Numbers showing data as it was before the change was made.

- O/C (Open Feedlot/Confinement)
- Species Type
- Detailed Animal Type
- Head
- Animal Units

- Wght Mult (Weight Multiplier)
- Calc. Wght (Calculated Weight)
- Status
- User (The user who edited the Animal Unit entry)
- Date Changed

1 of 1    100%    Find   Next    Select a format    Export										
<b>Harald Farmstead - #66166</b> 123 125th Street Moscow, IA 51555										
<b>Field Office 4</b> Crawford County, Stockholm TownShip NE 1/4 of the NE of Section 11, T111N, R11W Middle Clear Creek-Iowa River WaterShed										
<h3>Animal Numbers</h3>										
Associated Operation	Animal Information									
	Species Type	Detailed Animal Type	Head	Animal Units	Wght Mult	Calc. Wght	Status	First User	Last User	
Open Feedlot	Beef Cattle	Cattle Beef Feeder Calf	100	100	300	30000	Approved	User 04/01/2009	User 04/01/2009	
Open Feedlot	Beef Cattle	Cattle Beef Feeder Calf	50	50	300	15000	Approved	User 04/01/2009	User 04/01/2009	
Open Feedlot	Dairy Cattle	Cattle Dairy Jersey	10	14	900	9000	Proposed	User 04/01/2009	User 04/01/2009	
Open Feedlot	Horses	Horses	1	2	1000	1000	Denied/Withdrawn	User 04/01/2009	User 04/01/2009	

	Operation Totals		
	Open Feedlot	Confine.	
Current Authorized AU			
Proposed AU Change			
Total AU if Authorized			

	Open Feedlot		Confinement		Facility Total	
Species Type	Animal Units	Weight	Animal Units	Weight	Animal Units	Weight
Beef Cattle	150.0000	45000.0	0.0000	0.0	150.0000	45000.0000
Dairy Cattle	14.0000	9000.0	0.0000	0.0	14.0000	9000.0000
Horses	2.0000	1000.0	0.0000	0.0	2.0000	1000.0000

Associated Operation	Animal Information								
	Species Type	Detailed Animal Type	Head	Animal Units	Wght Mult	Calc. Wght	Status	User	Date Changed
Open Feedlot	Beef Cattle	Cattle Beef Feeder Calf	50	50	300	15000	Approved	User	04/01/2009
Open Feedlot	Beef Cattle	Cattle Beef Feeder Calf	100	100	300	30000	Approved	User	04/01/2009

Comments		
Notes	First User Name and Date	Last User Name and Date
Miscount on feeder calf population.	User - Mar 31 2009 9:56AM	User - Mar 31 2009 9:56AM

Figure 26 Animal Numbers Report Sample

## **8. Feature Detail Page**

The Feature Detail page allows you to view feature information related to a facility's operation(s).

The Feature Detail page contains:

- Feature Detail field controls
- Feature Location Details
- Feature Detail summary information

The information may also be printed.

### ***Page Navigation***


- From a Facility Summary page Feature Summary table row link 
- To any page with links in the Site Header
- To any page with links in the Global Header

Figure 27 Feature Detail Page

### **Feature Detail Field Explanations**

Feature ID: The ID assigned to this feature when it is added.

Feature Type: A general category of feature such as Storage Structure, Production Area, or Sampling Point. The selected feature type determines which feature names may be selected.

Feature Name: A specific name for the feature such as Earthen Basin, Monitoring Well, or Vegetated Treatment Area.

Feature Description: If there are multiple features of the same type, this field may contain a description that helps users to differentiate between them.

Operation Type: The choices are:

- Confinement
- Confinement/Open Feedlot (the feature applies to *both* operations in the facility)
- Open Feedlot

Date Authorized to Construct: The date when authorization was given to construct or select the date using the calendar icon. This field is an optional field for DNR staff and may not be populated.

Date Constructed: The date when the feature was constructed. This field is an optional field for DNR staff and may not be populated.

Date Closed: The date when the feature was closed. This field is an optional field for DNR staff and may not be populated.

First User & Date: Who added the feature and when.

Last User & Date: Who last changed the feature and when.

Print: The Print button generates a Feature Detail Report (see Figure 30 Feature Detail Report Sample) in another browser window where it can be printed, exported, etc.)



Feature Detail

Print

Feature ID

34104

Feature Type

Production Area

Feature Name

Confinement Building

Feature Description

Operation Type

Confinement

Date Authorized to Construct

Date Constructed

Date Closed

First User & Date

LoadFE - 06/22/2009

Last User & Date

LoadFE - 06/22/2009


Save

Clear

Reset

Duplicate

Subentity Map


[Link To Map](#)

Location Details

Reference point	CENTER OF FACILITY		Collected By	cwolter
Lat/Long	43.31490	-92.22803	Collected Date	05/16/2008
x,y	562600	4796085	Collection Method	INTERPOLATION-PHOTO
Accuracy	20	meters	Scale	-

Feature Detail

Feature Type	Feature Name	Feature Description	Operation Type	Date Authorized to Construct	Date Constructed	Date Closed	First User Name & Date	Last User Name & Date	
 Storage Structure	Below Building Pits		Confinement		01/01/2005		bstreic 05/24/2005	bstreic 05/24/2005	<div>Delete</div>
 Production Area	Confinement Building		Confinement				LoadFE 06/22/2009	LoadFE 06/22/2009	<div>Delete</div>

Comments

Save

Reset

Comments

Notes	First User Name and Date	Last User Name and Date

Figure 28 Feature Detail Page

## Location Details

Underneath the feature detail field controls is the feature location details information (see Figure 28 Feature Detail Page ). The information here originates from the web site linked to by Link To Map and depends on the activities performed in another browser page (Facility Maintenance) after you link to that site.

- Link To Map
- Reference point
- Lat/Long
- x,y
- Accuracy
- Collected By
- Collected Date
- Collection Date
- Collection Method
- Scale

If location details are not available for the feature, facility location details will be displayed instead along with an explanatory note (see Figure 29 Facility Location Substitution).

Subentity Map	Location Details *				
<a href="#">Link To Map</a>	Reference point	-		Collected By	cwolter
	Lat/Long	43.31499	-92.22803	Collected Date	05/16/2008
	x,y	562600	4796085	Collection Method	INTERPOLATION-PHOTO
	Accuracy	-	meters	Scale	24000
* Feature Location detail not available. Displaying Facility Location information.					

Figure 29 Facility Location Substitution

## Feature Detail Table

Each row in the table (see Figure 28 Feature Detail Page) represents a facility feature.

- Feature Type
- Feature Name
- Feature Description
- Operation Type
- Date Authorized to Construct
- Date Constructed
- Date Closed
- First User Name & Date
- Last User Name & Date

Figure 30 Feature Detail Report Sample

## Feature Types/ Feature Names

The following grid will show what feature names are associated with a feature type.

Feature Type	Feature Name
Storage Structures	AT System

<b>Feature Type</b>	<b>Feature Name</b>
	Below Building Pits - Deep
	Below Building Pits - Shallow
	Earthen Basing
Storage Structures	Lagoon - Aerobic
	Wetland
	Sand Settling Lanes
	Settled Open Feedlot Effluent Basin
	Slurry Settling
	Solids Settling
	Stockpiling Structure – Covered
	Stockpiling Structure – Uncovered
	Lagoon – Anaerobic
	Other
	Outside Concrete – Covered
	Outside Concrete – Uncovered
	Outside Formed Concrete
	Runoff Control
Treatment	Vegetative Infiltration Basin (VIB)
	Vegetative Treatment Area (VTA)
Production Area	Confinement Building
	Feedlot
	Production Building – Dirt Floor
Sampling Site	Monitoring Well
	Soil Sampling Site
	Tile Outlet
Emergency Protection	Secondary Containment

## **9. Management Plan and Construction Review**

### **Page**

The Management Plan and Construction Review page allows DNR field staff to create and manage a facility's management plan and construction reviews and the associated actions and fees.


The page contains:

- Management Plan and Construction Review field controls
- Fee field controls
- Fee summary information
- Action field controls
- Action summary information

The information may also be printed.

Each page has a Global Header, a Site Header, a main body and a Global Footer.

### ***Page Navigation***

- From a Facility Summary page Nutrient Management and Construction Reviews (Field Office) table row link 
- To any page with links in the Site Header
- To any page with links in the Global Header

### **Management Plan and Construction Review Field Controls**

MP Month Due: Displays the facility's Management Plan Month Due which is set on the Facility detail page. All management plans are due on the first of the month.

Management Plans (MPs) could be either a MMP, NMP, 200A, or P-MMP document.

Operation Types: Open Feedlot, Confinement, or both.

Change Proposed: Currently, the choices are:

- Expanding
- Modifying – no change in capacity
- New
- No Change

Plan Type: Currently, the choices are:

- 200A
- MMP
- NMP

- Pindex MMP – original
- Pindex MMP – short form

Status: As a MP or CDS moves through the review process, and actions are recorded, the status will be changed.

Days In House: The Days In House is calculated automatically from the date the Management Plan is received (as recorded in the actions) and stops when the plan has been approved or denied (as recorded in the actions).

FO Plan Reviewer: The field office plan reviewer.

First User & Date: Who added the management plan and construction review and when.

Last User & Date: Who changed the management plan and construction review and when.

Print: The Print button generates a Management Plan and Construction View Report in another browser window where it can be printed, exported, etc.)

Figure 31 Management Plan and Construction Review Page - Part I shows the Management Plan and Construction Review field controls, the Fee field controls and the Fee summary information related to the selected management plan and construction review. Figure 32 Management Plan and Construction Review Page - Part II shows the Action field controls, Action summary information and Comments related to the selected management plan and construction review.

Management Plan and Construction Review  
Page

MMP Month Due: January Print

<b>Operation Types</b> Confinement	<b>Change Proposed</b> New	<b>Plan Type</b> 200A
<b>Status</b> Approved	<b>Days In House</b> 28	<b>FO Plan Reviewer</b> Dan Olson
<b>First User &amp; Date</b> User - 04/02/2009	<b>Last User &amp; Date</b> User - 04/02/2009	
Save Reset		

<b>Fee Action Type</b> -- Fee Action Type --	<b>Amount</b> 	<b>Date Received</b> 
Save Reset		

Fee Table					
	Fee Action Type	Amount	Date Received	First User & Date	Last User & Date
↺	MMP Filing Fee	15.00	04/01/2009	User 04/02/2009	User 04/02/2009
Total:		\$ 15.00			

Figure 31 Management Plan and Construction Review Page - Part I

## Management Plan and Construction Review Field Controls

See **Error! Reference source not found.**/Management Plan and Construction Review Field Controls for additional field control information.

MMP Month Due:

Operation Types:

Change Proposed:

Plan Type:

Status: Disabled. Displays the status of the most current action (see below) in this dropdown.

Days In House: Disabled. If there is no Management Plan Received action, this will be 0. If there is a Management Plan Received action and either a Denial Letter Sent action, a Plan Approved action or a Plan Withdrawn action, this will be the difference in days between the two actions' dates. If there is a Management Plan Received action but no Denial Letter Sent action, Plan Approved action or Plan Withdrawn action, this will be the difference in days between the Management Plan Received action date and today.

FO Plan Reviewer:

First User & Date: Who added the management plan and construction review and when. Read-only.

Last User & Date: Who changed the management plan and construction review and when. Read-only. .

Save: The Save button (in edit mode) saves the changed management plan and construction review values, subject to field verification and reloads the page in edit mode.

Reset: The Reset button (in edit mode) resets the Management Plan and Construction Review field controls to the current values in the database and stays in edit mode.

Print: The Print button (in edit mode) generates the Management Plan and Construction View Report (see Figure 33 Management Plan and Construction Review Report) in another browser window where it can be printed, exported, etc.

## **Fee Table**

Each row in the fee table represents a fee associated with the management plan and construction review. The fields are:

- Fee Action Type
- Amount
- Date Received
- First User & Date
- Last User & Date

At the bottom of the table the fee total for this management plan and construction review is shown:

- Total:

<b>Actions</b>	<b>Date</b>	<b>Follow-up Required By Date</b>	<b>Document</b>
-- Action --	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="button" value="Browse..."/>
<input type="button" value="Save"/> <input type="button" value="Reset"/>			

Action Table					
	Actions	Date	Follow-up Required By	Document	
↻	Management Plan Received	04/01/2009			<input type="button" value="Delete"/>
↻	Incomplete Soil Sampling Letter Sent	04/08/2009			<input type="button" value="Delete"/>
↻	MMP Reminder Letter	04/15/2009			<input type="button" value="Delete"/>
↻	Plan Approved	04/29/2009			<input type="button" value="Delete"/>
↻	AO referral sent	04/02/2009		<a href="#">README1.T</a>	<input type="button" value="Delete"/>

**Comments**

Comments			
Notes	First User Name and Date	Last User Name and Date	

Figure 32 Management Plan and Construction Review Page - Part II

## Action Table

Each row in the fee table represents an action associated with the management plan and construction review. The fields are:

- Actions
- Date
- Follow-up Required By
- Document
  - If a document is attached to this action, its name will be shown here. You may click on the name to download and view it.



1 of 1 100% Find | Next Select a format Export

---

<b>Harald Farmstead - #66166</b> 123 125th Street Moscow, IA 51555	<b>Field Office 4</b> Crawford County, Stockholm TownShip NE 1/4 of the NE of Section 11, T111N, R11W Middle Clear Creek-Iowa River WaterShed
---	--

---

**Management Plan and Construction Review**

<b>Operation Type</b>	<b>Changed Proposed</b>	<b>Plan Type</b>
Confinement	New	200A
<b>Status</b>	<b>Days in House</b>	<b>Fo Plan Reviewer</b>
Incomplete	28	Dan Olson
<b>First User &amp; Date</b>	<b>Last User &amp; Date</b>	
User - 04/02/2009	Administrator - 04/03/2009	

Fee Table				
Fee Action Type	Amount	Date Received	First User & Date	Last User & Date
MMP Filing Fee	\$15.00	04/01/2009	User 04/02/2009	User 04/02/2009
Indemnity Fee	\$25.00	04/06/2009	User 04/02/2009	User 04/02/2009
<b>Total:</b>	<b>\$40.00</b>			

Action Table			
Actions	Date	Follow-up Required By	Document
Management Plan Received	04/01/2009		
Incomplete Soil Sampling Letter Sent	04/08/2009		
MMP Reminder Letter	04/15/2009		
Plan Approved	04/29/2009		
AO referral sent	04/02/2009		README1.TXT

Comments		
Notes	First User/Date	Second User/Date

Figure 33 Management Plan and Construction Review Report

## **10. Construction Review Page**

The Construction Review page DNR permit reviewers to create and manage construction reviews and associated actions and fees for a facility operation.


The page contains:

- Construction Review field controls
- Animal Numbers for the facility operation
- Fee field controls
- Fee summary information
- Action field controls
- Action summary information

The information may also be printed.

Each page has a Global Header, a Site Header, a main body and a Global Footer—except in the case where a construction review has been added

### ***Page Navigation***

- From a Facility Summary page Construction Reviews (Central Office) table row link 
- To any page with links in the Site Header (as long as the construction review has a status provided by an action)
- To any page with links in the Global Header

### **Construction Review Fields**

Information about the reviews is added by the DNR Engineers including:

Permit #: Construction permit number.

Project Proposed: Currently, the choices are:

- Expanding
- Modifying – no change in capacity
- New

Project Status: Status is set by the actions which occur during the review process.

Days In House: Automatically calculated from the date the project is received and the date the project review is completed.

Days Allowed: Defaults to 60 but the value can be changed if extensions are approved.

Operation Type: The operation type choices are (one or both may appear):

- Confinement
- Open Feedlot

Application Type: Currently, the choices are:

- As-Built
- Confinement – Earthen
- Confinement – Formed
- Open Feedlot – AT
- Open Feedlot – Conventional
- Secondary Containment

Matrix Required: Currently, the choices are:

- No
- Not Assigned (default)
- Yes

Engineering Plan: Currently, the choices are:

- No
- Not Assigned (default)
- Yes

Meets Threshold: Currently, the choices are:

- No
- Not Assigned (default)
- Yes

Monitoring Required: Currently, the choices are:

- No
- Not Assigned (default)
- Yes

Management Plan Req: Currently, the choices are:

- No
- Not Assigned (default)
- Yes

Design Engineer:

Review Engineer:

FO Contact:

First User & Date: Who added the construction review and when.

Last User & Date: Who changed the construction review and when.

## Animal Unit Info

The animal unit information for an operation at the facility is displayed as:

- Current Authorized AU
- Proposed AU Change
- Total AU If Approved

Figure 34 Construction Review Page - Part I shows the Construction Review field controls, the Animal Unit Info table, the Fee field controls and the Fee summary information related to the selected construction review. Figure 35 Construction Review Page - Part II shows the Action field controls, Action summary information and Comments related to the selected construction review.

**Construction Review**

Permit #: CP-2009-0009

Print

Project Proposed

Project Status

Days In House

Days Allowed

Operation Type

New

Approved

4

60

Confinement

Application Type

Matrix Required

Engineering Plan

Meets Threshold

As-Built

Not Assigned (default)

Not Assigned

Not Assigned

Monitoring Required

Management Plan Req

Design Engineer

Review Engineer

FO Contact

Not Assigned

Not Assigned

-- No Selection --

-- No Selection --

-- No Selection --

First User & Date

Last User & Date

User - 04/06/2009

User - 04/06/2009

Save

Reset

Animal Unit Info	Numbers From Operation
Current Authorized AU	40
Proposed AU Change	0
Total AU If Approved	40

Fee Action Type

Amount

Date Received

-- Fee Action Type --

Save

Reset

Fee Table

	Fee Action Type	Amount	Date Received	First User & Date	Last User & Date
↻	Construction Permit Fee Received	25.00	04/01/2009	User 04/06/2009	User 04/06/2009
Total:		\$ 25.00			

Figure 34 Construction Review Page - Part I

Print: The Print button generates the Construction View Report (see Figure 36 Construction Review Report) in another browser window where it can be printed, exported, etc.

## Fee Field Controls

These fees will also appear in the Fee Summary table in the Facility Summary page.

Fee Action Type: Current choices are:

- Construction Permit Fee Received
- Indemnity Fee Received
- Indemnity Fee Refunded
- New MMP Filing Fee Received

Amount:

Date Received:

## Fee Table

Each row in the fee table represents a fee associated with the construction review. The fields are:

- Fee Action Type
- Amount
- Date Received
- First User & Date
- Last User & Date

At the bottom of the table the fee total for this management plan and construction review is shown:

- Total:

<b>Action</b>	<b>Date</b>	<b>Follow-Up Required By</b>	<b>Document</b>
<div style="border: 1px solid #ccc; padding: 2px;"> -- Action -- </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <input type="text"/> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <input type="text"/> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <input type="text"/> </div>
<input type="button" value="Save"/> <input type="button" value="Reset"/>			

Action Table					
	Actions	Date	Follow-up Required By	Document	
➡	Application Received	04/02/2009			<input type="button" value="Delete"/>
➡	Permit Approved	04/06/2009			<input type="button" value="Delete"/>

**Comments**

Comments			
	Notes	First User Name and Date	Last User Name and Date

Figure 35 Construction Review Page - Part II

## Action Field Controls

**Action:** The choices depend on the construction review's operation type. Required. Various actions may trigger other events when saved. For example, some will change the project status or the days-in-house in the construction review, some will cause an information dialog to appear after the save.

**Date:** Required.

**Follow-up Required By Date:** Optional.

**Document:** Optional.

## Action Table

Each row in the fee table represents an action associated with the construction review. The fields are:

- Actions
- Date
- Follow-up Required By
- Document
  - If a document is attached to this action, its name will be shown here. You may click on the name to download and view it.

1 of 1 100% Find | Next Select a format Export

**Harald Farmstead - #66166** **Field Office 4**  
**123 125th Street Moscow, IA 51555** **Crawford County, Stockholm TownShip**  
**NE 1/4 of the NE of Section 11, T111N, R11W**  
**Middle Clear Creek-Iowa River WaterShed**

**Construction Review**

<b>Project Proposed</b>	<b>Project Status</b>	<b>Days in House</b>	<b>Days Allowed</b>	<b>Operation Type</b>
New	Approved	4	60	Confinement
<b>Application Type</b>	<b>Matrix Required</b>	<b>Engineering Plan</b>		<b>Meets Threshold</b>
As-Built	Not Assigned (default)	Not Assigned		Not Assigned
<b>Monitoring Required</b>	<b>Management Plan Req</b>	<b>Design Engineer</b>	<b>Review Engineer</b>	<b>FO Contact</b>
Not Assigned	Not Assigned			
<b>First User &amp; Date</b>		<b>Last User &amp; Date</b>		
User - 04/06/2009		User - 04/06/2009		

<b>Animal Unit Info</b>	<b>Numbers From Operation</b>
Current Authorized AU	40
Proposed AU Change	0
Total AU if Authorized	40

Fee Table				
Fee Action Type	Amount	Date Received	First User & Date	Last User & Date
Construction Permit Fee Received	\$25.00	04/01/2009	User 04/06/2009	User 04/06/2009
<b>Total:</b>	<b>\$25.00</b>			

Action Table			
Actions	Date	Follow-up Required By	Document
Application Received	04/02/2009		
Permit Approved	04/06/2009		

Comments		
Notes	First User/Date	Second User/Date

Figure 36 Construction Review Report

## 10. Geo Review Page

The Geo Review page is used to manage and track Geo Review (Environmental Review) actions. There is only one Geo Review page per facility. The summary information at the top of the page reflects the most recent review.

The page contains :

- Geo Review field controls
- Action field controls
- Action summary information

The information may also be printed.

Each page has a Global Header, a Site Header, a main body and a Global Footer.

### ***Page Navigation***

- From a Facility Summary page Environmental Review (Geo Review) table row link ➡
- To any page with links in the Site Header
- To any page with links in the Global Header

The screenshot displays the 'Geo Review Page' in 'Add Mode'. The page has a title bar 'Geo Review Page' and a 'Print' button in the top right corner. The main content area is divided into several sections:

- Project Proposed:** A dropdown menu showing '-- Project Proposed --'.
- Project Type:** A list box with three options: 'As-Built', 'Confinement - Earthen', and 'Confinement - Formed'.
- Operation Type:** A dropdown menu showing '-- Operation Type --'.
- Storage Review Status:** A dropdown menu showing 'Not Assigned (default)'.
- Karst Status:** A dropdown menu showing '-- Karst Status --'.
- Floodplain/Alluvial Status:** A dropdown menu showing '-- Floodplain/Alluvial Status --'.
- Monitoring Status:** A dropdown menu showing '-- Monitoring Status --'.
- Reason For Monitoring:** A dropdown menu showing '-- Reason For Monitoring --'.
- First User & Date:** A text input field.
- Last User & Date:** A text input field.

At the bottom of the form, there are 'Save' and 'Reset' buttons.

Figure 37 Geo Review Page (Add Mode)

### **Geo Review Field Controls**

Project Proposed: Currently, the choices are:

- Expanding
- Modifying – no change in capacity
- New



Project Type: Currently, the choices are:

- As-Built
- Confinement – Earthen
- Confinement – Formed
- Open Feedlot – AT
- Open Feedlot – Conventional
- Other

Operation Type:

- Confinement
- Confinement/Open Feedlot
- Open Feedlot

Storage Review Status: Currently, the choices are:

- Not Assigned (default)
- PreReview Complete
- Review Complete
- Under PreReview
- Under Review

Karst Status: Karst status choices currently are

- Site is in karst
- Site is not in karst
- Soils Investigation Required
- Not assigned (default)

Floodplain/Alluvial Status:

- Not in alluvial soils
- Site in alluvial soils
- Flood Plain Review Required
- Flood Plain Review Issued
- Not assigned (default)

Monitoring Status: Monitoring Status choices are

- Not assigned (default)
- Required
- Discontinued

Reason For Monitoring: Currently, the choices are:

- As-Built: for existing structures that undergo evaluation in order to determine if they provide equivalent protection to current construction standards.
- Construction Methods: for structures that may not have been constructed properly and need further evaluation

- High Groundwater: for structures that may not meet required groundwater separation.
- Karst: structures in areas designated as karst.
- Not Assigned (default)
- Other

First User & Date: Who added the geo review and when.

Last User & Date: Who changed the geo review and when.

Figure 38 Geo Review Page – Part I shows the Geo Review field controls, the Action field controls and the Action Table.

Geo Review Page Print

**Project Proposed**

New

**Project Type**

☒ As-Built  
☐ Confinement - Earthen  
☐ Confinement - Formed

**Operation Type**

Confinement/Open Feedlot

**Storage Review Status**

Under Review

**Karst Status**

Site is not in Karst

**Floodplain/Alluvial Status**

Flood Plain Review Issued

**Monitoring Status**

Required

**Reason For Monitoring**

As-Built

**First User & Date**

Administrator - 04/07/2009

**Last User & Date**

Administrator - 04/07/2009

Save Reset Delete

**Actions**

**Date**

**Follow-up Required By Date**

**Document**

-- Actions --

Browse...

Save Reset

Action Table					
	Actions	Date	Follow-up Required By	Document	
➡	Compliance Monitoring Required	04/07/2009			Delete
➡	Karst Designation Removed	04/08/2009			Delete
➡	Flood Plain Review Issued	04/09/2009			Delete

Figure 38 Geo Review Page – Part I

## Action Field Controls

Action: Required.

Various actions may change the contents of the Geo Review's Karst Status dropdown or the Floodplain/Alluvial Status dropdown or the Monitoring Status dropdown.

Date: Required. The action data should be the date the action actually took place, not the date it was entered. For information received, it is important to record the date the letter was stamped by the mailroom or the date the electronic communication occurred.

Follow-up Required By Date: Optional. If monitoring is required, there should be a follow-up date (usually 2-years from the required date) entered so that the users can determine which sites are due for internal evaluation.

Document: Optional.

### **Action Table**

Each row in the fee table represents an action associated with the geo review. The fields are:

- Actions
- Date
- Follow-up Required By
- Document
  - If a document is attached to this action, its name will be shown here. You may click on the name to download and view it.

1 of 1 100% Find | Next Select a format Export

**Harald Farmstead - #66166** **Field Office 4**  
**123 125th Street Moscow, IA 51555** **Crawford County, Stockholm TownShip**  
**NE 1/4 of the NE of Section 11, T111N, R11W**  
**Middle Clear Creek-Iowa River WaterShed**

**Geo Review**

<b>Project Proposed</b> New	<b>Project Type</b> As-Built	<b>Operation Type</b> Open Feedlot
<b>Storage Reivew Status</b> Under Review	<b>Karst Status</b> Site is not in Karst	<b>Floodplain/Alluvial Status</b> Flood Plain Review Issued
<b>Monitoring Status</b> Required	<b>Reason For Monitoring</b> As-Built	

Action Table			
Action	Date	Follow-Up Required By	Document
Compliance Monitoring Required	04/07/2009		
Karst Designation Removed	04/08/2009		
Flood Plain Review Issued	04/09/2009		
Correspondence	04/08/2009		

Comments		
Notes	First User/Date	Second User/Date
Removed some erroneous actions.	Administrator - 04/07/2009	Administrator - 04/07/2009

Figure 39 Geo Review Report

## 11. Reports

The Reports Page allows you to generate reports. It contains the Global Header, the Global Footer and the Report Selection controls (see Figure 40 Reports Page (Reports selected)).

IowaDNR Animal Feeding Operation

Search Reports Logout Help

Reports

Reports: -- Select Report --

Generate

Version .01 Site Policy State of Iowa Home DNR Home  
webmaster@dnr.state.ia.us © Iowa Department of Natural Resources

Figure 40 Reports Page (Reports selected)

### ***Page Navigation***

- From every page
- To any page with links in the Global Header

### ***Report Selection Controls***

Reports: Choose a report from the drop-down list. Once a report has been chosen, other controls/filters relevant to the report will appear.

Generate: Press “Generate” to create the report. The report will appear in a new browser window. If the report does not appear, you may need to turn off the browser's Pop-up Blocker.

### ***Reports***

Figure 41 Reports Page (Reports List) shows the reports that can be generated.

Figure 41 Reports Page (Reports List)

Each of the reports may be filtered in various ways.

Generate: The Generate button generates the selected report according to any filtering that has been specified. The report will be produced in another browser window where it

can be printed, exported, etc. The filters used to generate the report will be listed on the left side at the bottom (last page) of the report and the time the report was generated will be listed on the right side at the bottom of the report.

Exporting to Excel: Users can choose to export to Excel by choosing “Excel” from the drop-down list under “Select a Format” at the top of the page and then hitting the “Export” button. The report title and filter information will not be displayed in the excel spreadsheet because it interferes with the ability of the user to sort data. For reports with individual column headings, the spreadsheets can be sorted without manipulation. Rows with headings for groups of columns must be deleted prior to sorting.

## **Basic AFO Data with Animal Numbers Report**

**Purpose:** This report is designed to show the numbers of active facilities and related active operations and animal units in the AFO Database. This report only displays animal numbers that have an “approved” status and does not include animal numbers that are “proposed” or have been “denied/withdrawn.”

**Caveats:** Animal numbers are difficult to track and the old AFO database did not have the ability to track changes or warn users when numbers should be updated, therefore this information should be carefully verified before using it for the purposes of research, publication, or legal matters. For permitted facilities and facilities required to meet manure storage design standards, the animal numbers generally indicate the maximum allowable number of animals in the facility. Small open feedlots, confinements with less than 500 animal units, and older operations may only have numbers representing the best information available to the AFO staff at the time the data was entered.

### ***Filtered by Field Office/County (default)***

The user can filter these data by Field Office/County or by Watershed. If no changes are made, the report will default to Field Office/County and the report will display a statewide report of facilities by Field Office with a summary of statewide numbers at the bottom. If a specific Field Office is chosen, but no county is chosen, the report will display the number of facilities and related animal unit information by county with a summary for the entire Field Office region at the bottom.

.

Reports

☒ Reports
 ☐ Letters

Reports: Basic AFO Data

☒ Field Office/County
 ☐ Watershed

Field Office: -- Field Offices --

County: -- All Counties --

Date:

Print/Export

Figure 42 Basic AFO Data with Animal Numbers (Field Office) Report Filter

### Filtered by Watershed

If the user chooses to run the report by watershed, but does not select any specific watershed, the report will display data by HUC 8 watershed with a summary of the statewide numbers at the bottom. If a HUC 8 watershed is chosen, but no HUC 12 subwatershed is specified, the report will display numbers by HUC 12 (subwatersheds) within the HUC 8 watershed

Reports

☒ Reports
 ☐ Letters

Reports: Basic AFO Data With Animal Numbers

☐ Field Office/County
 ☒ Watershed

HUC8: -- All HUC8 --

HUC12: -- All HUC12 --

Date:

Generate

Figure 43 Basic AFO Data with Animal Numbers (Watershed) Report Filter

### Filter by Date

If the user does not select a date, the system will report all active facility and animal numbers in the system as of the time the report is run. If a date is chosen, the system will report the numbers in the system as of the date chosen. **IMPORTANT: Reports run prior to October 1, 2009, will not accurately display facility and animal number data since the old AFO database did not track the date a facility was first added or the date animal numbers were changed.**

**Columns:** The first 2 columns in the report list the areas for which the report was run. These may be field office numbers, county names, or watershed names. The next 11 columns in this report represent subsets of the facilities based on operation type and animal number data. The final set of columns display animal units by detailed animal types. These numbers may have decimal points because animal units are calculated

from the number of head multiplied by a fraction that represents the size of the animal relative to beef cattle.

## Construction Review Activity Report

**Purpose:** This report is designed to create a list of construction permit applications and all information pertaining to the review process for construction permits, resulting in a very large report with vast amounts of information. The list includes construction permits that have been issued, denied or withdrawn by the applicant.

**Filters:** The report can be filtered by Field Office, county within Field Office and also by Project In-house status (either all projects or currently In house for review).

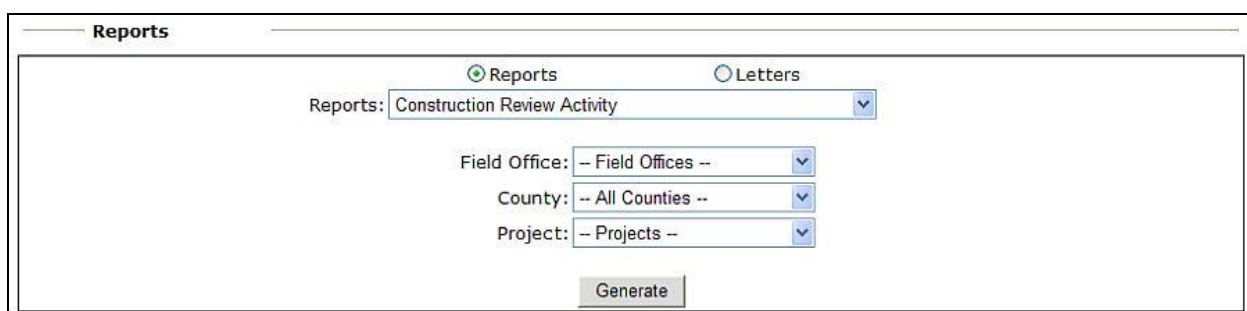
The screenshot shows a web interface titled "Reports". At the top, there are two radio buttons: "Reports" (which is selected) and "Letters". Below this, there is a dropdown menu labeled "Reports:" with "Construction Review Activity" selected. Underneath the dropdown are three more dropdown menus: "Field Office:" with "-- Field Offices --" selected, "County:" with "-- All Counties --" selected, and "Project:" with "-- Projects --" selected. At the bottom of the filter section is a "Generate" button.

Figure 44 Construction Review Activity Report Filter

## Construction Review Activity (Limited Actions) Report

**Purpose:** This report is designed to create the same list of construction permit applications as the previous report, but with less information pertaining to the review process for construction permits. Fewer columns of information are presented making the report somewhat more manageable in size. The items of most interest for the review process are still presented. This list also includes construction permits that have been issued, denied or withdrawn by the applicant.

**Filters:** The report can be filtered by Field Office, county within Field Office and also by Project In-house status (either all projects or currently In house for review).

The screenshot shows a web interface titled "Reports". At the top, there are two radio buttons: "Reports" (which is selected) and "Letters". Below this, there is a dropdown menu labeled "Reports:" with "Construction Review Activity (Limited Actions)" selected. Underneath the dropdown are three more dropdown menus: "Field Office:" with "-- Field Offices --" selected, "County:" with "-- All Counties --" selected, and "Project:" with "-- Projects --" selected. At the bottom of the filter section is a "Generate" button.

Figure 45 Construction Review Activity (Limited Actions) report Filter



## Construction Review Numbers Report

**Purpose:** This report is designed to provide a summary of construction applications. The report summarizes by number of applications for new construction and expanding construction for existing operations. The summary also provides information on confinement applications and open feedlot applications. Within the confinement summary is separate subgroup information on facilities applying for a construction permit (greater than 1000 animal units) and facilities that are not required to apply for a construction permit (greater than 500 animal units but less than 1000 animal units – these operations are required to have a Manure Management Plan). All open feedlot applications are for a construction permit (greater than 1000 animal units). Within each subgroup of the report is information on the number of applications by animal species (swine, dairy cattle, beef cattle, chickens or turkeys). A total of all applications is also provided.

**Filters:** The report can be filtered by Field Office and date range. For example the report could be filtered for all applications in Field Office 2 between January 1, 2008 and December 31, 2008.

NOTE – the date range selected does not show up on the report.

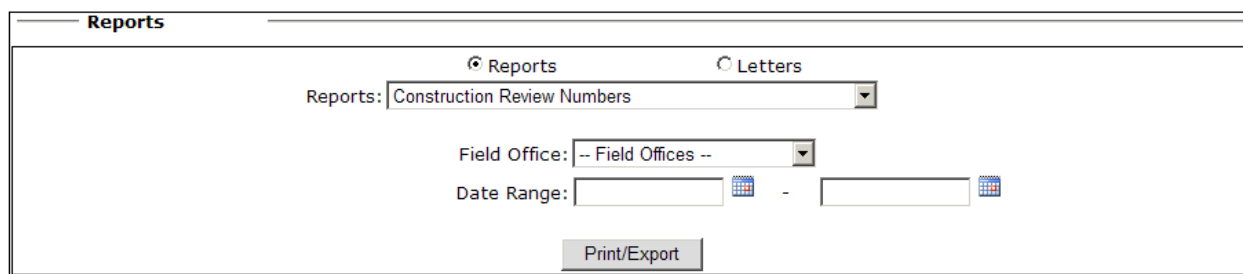
The screenshot shows a web-based filter interface for the 'Construction Review Numbers' report. At the top, there is a tabbed interface with 'Reports' selected and 'Letters' as an alternative. Below this, a dropdown menu is set to 'Construction Review Numbers'. Underneath, there is a 'Field Office' dropdown menu currently showing '-- Field Offices --'. Below that is a 'Date Range' section with two date pickers separated by a hyphen. At the bottom of the filter area is a 'Print/Export' button.

Figure 46 Construction Review Numbers Report Filter

## Geo Review Report

**Purpose:** This report is designed to show facilities that have been reviewed by a DNR geologist or an environmental specialist relating to basin construction, potential impacts to groundwater and surface water, and/or the potential for flooding.

### ***Filtered by Field Office/County (default)***

The user can filter these data by Field Office/County or by Watershed. If no changes are made, the report will default to Field Office/County and the report will display all

facilities statewide that have had a Geo Review. If a specific Field Office is chosen, but no county is chosen, the report will display facilities by county. (see Figure 47 Geo Review Report Filter).

The screenshot shows a web interface titled "Reports". At the top, there are two radio buttons: "Reports" (selected) and "Letters". Below this is a dropdown menu labeled "Reports:" with "Geo Report" selected. Further down, there are two radio buttons: "Field Office/County" (selected) and "Watershed". Below these are three dropdown menus: "Field Office:" with "-- Field Offices --" selected, "County:" with "-- All Counties --" selected, and "Project Information:" with "-- All Project Info --" selected. At the bottom is a "Generate" button.

Figure 47 Geo Review Report Filter by Field Office/County

### ***Filtered by Watershed***

If the user chooses to run the report by watershed, but does not select any specific watershed, the report will display facilities by HUC 8 watershed. If a HUC 8 watershed is chosen, but no HUC 12 subwatershed is specified, the report will display facilities by HUC 12 (subwatersheds) within the HUC 8 watershed (see Figure 48 Geo Review Report Filter).

The screenshot shows a web interface titled "Reports". At the top, there are two radio buttons: "Reports" (selected) and "Letters". Below this is a dropdown menu labeled "Reports:" with "Geo Report" selected. Further down, there are two radio buttons: "Field Office/County" and "Watershed" (selected). Below these are three dropdown menus: "HUC8:" with "-- All HUC8 --" selected, "HUC12:" with "-- All HUC12 --" selected, and "Project Information:" with "-- All Project Info --" selected. At the bottom is a "Generate" button.

Figure 48 Geo Review Report Filter by Watershed

### ***Filtered by Project Information Category***

The user may choose to filter Geo Review data by Project Information category including Karst Status, Floodplain/Alluvial Status, or Monitoring Status. If Karst Status is chosen, the report will display all facilities for which the Karst Status has been assigned including "Site is in Karst," "Site is not in Karst," or "Soils Investigation Required." If Floodplain/Alluvial Status is chosen, the report will display all facilities for which Floodplain/Alluvial Status has been assigned including "Site in Alluvial Soils," "Site not in Alluvial Soils," "Flood Plain Review Required," or "Flood Plain Review Issued" (see Figure 49 Geo Review Report Filter by Project Information ).

Reports

---

☒ Reports
 ☐ Letters

Reports: Geo Report

☒ Field Office/County
 ☐ Watershed

Field Office: -- Field Offices --

County: -- All Counties --

Project Information: -- All Project Info --

-- All Project Info --  
Alluvial Status  
Karst Status  
Monitoring Required

Version 0.1.1

[Site Policy](#)
[All Existing Sites](#)
[All Home](#)
[DNR Home](#)
[State of Iowa Home](#)

Figure 49 Geo Review Report Filter by Project Information

### Explanation of Columns:

The Geo Review report will display the following basic data columns: Field Office # (Field Office Number) , County Name, X-Coord. (UTM X Coordinate), Y-Coord. (UTM Y Coordinate), Facility ID# (Facility ID Number), and Facility Name. The remainder of the columns display information related specifically to the Geo Review.

- **Project Proposed** describes the facility at the time of the most recent review. At the time of review, changes may be proposed for an existing, expanding, or modifying facility or a new facility is being proposed.
- **Project type** describes all of the manure storage or treatment system that was reviewed. More than one type may be reviewed per facility.
- **Operation Type** may be open feedlot, confinement, or both.
- If a storage structure has been reviewed or is undergoing review, a **Storage Review Status** may be assigned one of the following: Not assigned (Default), Under Pre review, Pre Review complete, Under review, or Review Complete. Prior to an application being received, some facilities may request a Pre-Review meeting.
- **Karst Status** includes: Not Assigned (default), Site is not in Karst, Site is in Karst, and Soils investigation required. A soils investigation is sometimes necessary to determine if a site is in karst or not.
- **Floodplain/Alluvial Status** includes the following categories: Not Assigned (default), Site in Alluvial Soils, Site not in Alluvial Soils, Floodplain Review Required, and Floodplain Review Issued. Since most Flood plain reviews are done by DNR Flood Plains staff and tracked in a separate database, the Flood Plain review information may not be up-to-date. Users should check with the Flood Plains section in order to obtain the most accurate information.
- **Monitoring Status** includes the following categories: Not Assigned (default), Required, Discontinued.
- **Reason For Monitoring** includes the following categories: Not assigned (default), High Groundwater, Karst, As-built, Construction Methods, and Other.
- The final two columns are Flood Plain Determination Issued Date and Most Recent Monitoring Submittal Date.

## Management Plan Numbers Report

**Purpose:** This report provides a summary of the various management plans submitted to the department. Types of management plans summarized by filter criteria and totaled include MMP, Phosphorus Index MMP, NMP and 200A.

**Filters:** The report can be filtered by Field Office/County or Watershed and subfiltered by within the filter.

### ***Filtered by Field Office/County (default)***

User may filter by Field Office, County and/or Date Range (see Figure 50 Management Plan Numbers (Field Office) Report Filter).

The screenshot shows a web interface titled "Reports". At the top, there are two radio buttons: "Reports" (selected) and "Letters". Below this is a dropdown menu labeled "Reports:" with "Management Plan Numbers" selected. Underneath, there are two radio buttons: "Field Office/County" (selected) and "Watershed". Below these are two dropdown menus: "Field Office:" with "-- Field Offices --" selected, and "County:" with "-- All Counties --" selected. At the bottom, there is a "Date Range:" section with two date pickers separated by a minus sign. A "Generate" button is located at the bottom right of the form.

Figure 50 Management Plan Numbers (Field Office) Report Filter

### ***Filtered by Watershed***

User may filter by HUC8, HUC12 and/or Date Range (see Figure 51 Management Plan Numbers (Watershed) Report Filter).

The screenshot shows a web interface titled "Reports". At the top, there are two radio buttons: "Reports" (selected) and "Letters". Below this is a dropdown menu labeled "Reports:" with "Management Plan Numbers" selected. Underneath, there are two radio buttons: "Field Office/County" (unselected) and "Watershed" (selected). Below these are two dropdown menus: "HUC8:" with "-- All HUC8 --" selected, and "HUC12:" with "-- All HUC12 --" selected. At the bottom, there is a "Date Range:" section with two date pickers separated by a minus sign. A "Generate" button is located at the bottom right of the form.

Figure 51 Management Plan Numbers (Watershed) Report Filter

## Management Plan Review Activity Report

**Purpose:** This report provides a listing of facilities and the various management plans submitted to the department. In addition to information about the facility and its location, the report provides information on operation type (confinement, open feedlot or combination of both), changes to the plan; type and status of plan; when the plan was received and approved; and information on reminder, NOV or NOR letters.

**Filters:** The report can be filtered by Field Office/County or Watershed and subfiltered by within the filter.

### ***Filtered by Field Office/County (default)***

User may filter by Field Office, County, Date Range, Operation Type (confinement, confinement/open feedlot, open feedlot) and/or Management Plan Type (200a, MMP, NMP, P-Index MMP – original, P-Index MMP – short form, or all management plan types) (see Figure 52 Management Review Activity (Field Office) Report Filter

The screenshot shows a web-based filter interface titled "Reports". At the top, there are two radio buttons: "Reports" (selected) and "Letters". Below this is a dropdown menu labeled "Reports:" with "Management Plan Review Activity" selected. Underneath, there are two radio buttons: "Field Office/County" (selected) and "Watershed". Below these are two dropdown menus: "Field Office:" with "-- Field Offices --" and "County:" with "-- All Counties --". There is a "Date Range:" section with two date pickers separated by a minus sign. Below that are two more dropdown menus: "Operation Type:" with "-- Operation Types --" and "Management Plan Type:" with "-- All Management Plan Types --". At the bottom center is a button labeled "Print/Export".

Figure 52 Management Review Activity (Field Office) Report Filter

### ***Filtered on Watershed***

User may filter by HUC8, HUC12, Date Range, Operation Type (confinement, confinement/open feedlot, open feedlot) and/or Management Plan Type (200a, MMP, NMP, P-Index MMP – original, P-Index MMP – short form, or all management plan types) (see Figure 53 Management Review Activity (Watershed) Report Filter).

Reports

☒ Reports
 ☐ Letters

Reports: Management Review Activity

☐ Field Office/County
 ☒ Watershed

HUC8: -- All HUC8 --

HUC12: -- All HUC12 --

Date Range: [ ] - [ ]

Operation Type: -- Operation Types --

Management Plan Type: -- All Management Plan Types --

Generate

Figure 53 Management Review Activity (Watershed) Report Filter

## Storage Structures and Animal Units Report

**Purpose:** This report is designed to show detailed information about the manure storage structures and animal units at active facilities that could be used in modeling. This report only displays animals that have an “approved” status and does not include animal numbers that are “proposed” or have been “denied/withdrawn.”

**Caveats:** Animal numbers are difficult to track and the old AFO database did not have the ability to track changes or warn users when numbers should be updated, therefore this information should be carefully verified before using it for the purposes of research, publication, or legal matters. For permitted facilities and facilities required to meet manure storage design standards, the animal numbers generally indicate the maximum allowable number of animals in the facility. Small open feedlots, confinements with less than 500 animal units, and older operations may only have numbers representing the best information available to the AFO staff at the time the data was entered.

### ***Filtered by Field Office/County (default)***

You may filter by Field Office, County and/or Operation Type (see Figure 54 Storage Structures and Animal Units (Field Office) Report Filter).

The screenshot shows a web interface titled "Reports". At the top, there are two radio buttons: "Reports" (which is selected) and "Letters". Below this, a dropdown menu is set to "Storage Structures and Animal Units". Underneath, there are two more radio buttons: "Field Office/County" (selected) and "Watershed". Below these are three dropdown menus: "Field Office:" set to "-- Field Offices --", "County:" set to "-- All Counties --", and "Operation Type:" set to "-- Operation Types --". At the bottom center is a "Generate" button.

Figure 54 Storage Structures and Animal Units (Field Office) Report Filter

### ***Filtered by Watershed***

If the user chooses to run the report by watershed, but does not select any specific watershed, the report will display facilities by HUC 8 watershed. If a HUC 8 watershed is chosen, but no HUC 12 subwatershed is specified, the report will display facilities by HUC 12 (subwatersheds) within the HUC 8 watershed (see Figure 55 Storage Structures and Animal Units (Watershed) Report Filter).

The screenshot shows a web interface titled "Reports". At the top, there are two radio buttons: "Reports" (selected) and "Letters". Below this, a dropdown menu is set to "Storage Structures and Animal Units". Underneath, there are two more radio buttons: "Field Office/County" and "Watershed" (which is selected). Below these are three dropdown menus: "HUC8:" set to "-- All HUC8 --", "HUC12:" set to "-- All HUC12 --", and "Operation Type:" set to "-- Operation Types --". At the bottom center is a "Generate" button.

Figure 55 Storage Structures and Animal Units (Watershed) Report Filter

### ***Filtered by Operation Type***

If an Operation Type is not specified, the report will display all facilities in the geographical area specified. Or, the user may choose to narrow the report to show only facilities with active confinements or open feedlots.



The Help Page shows a quick overview of AFO navigating and provides a link to the User Manual at the bottom of the page (see Figure 56 Help Page).

Figure 56 Help Page



## **13. Appendix A – Terms & Definitions**

<b>Term</b>	<b>Definition</b>
Affiliate	Contractor associated with the facility, generally the owner of the animals.
AFO	Animal Feeding Operation
AO	Administrative Order
Alternative Technology	An open feedlot effluent control technology other than a conventional runoff containment system to control settled open feedlot effluent.
Animal Types	Means a species classification such as cattle, swine, horses, sheep, chickens, and turkeys
Animal Unit	Is a unit of measurement used to determine the animal capacity of an animal feeding operation, based upon the product of multiplying the number of animals in each species by the following: Slaughter and feeder cattle – 1.0; Mature dairy cattle – 1.4; Butcher and breeding swine, over 55 pounds – 0.4; Swine between 15 & 55 pounds – 0.1; Sheep or lambs – 0.1; Horses – 2.0; Turkeys – 0.018; Turkeys less than 7 lbs (poults or brooders) .0085 au, Broiler or layer chickens – 0.01, Chickens less than 3 lbs (pullets) .0025 au.
Animal Unit Capacity	A measurement used to determine the maximum number of animal units that may be maintained as part of an animal feeding operation at any one time, including operations under common ownership or management that are adjacent or utilize a common system of manure storage.
Animal Weight Capacity	The sum of the average weight of all animals in a confinement feeding operation when the operation is at full animal capacity.
As-Built	The project proposed already exists and no construction activity is being proposed.
AT	See Alternative Technology definition
AU	See Animal Unit definition
Compliance	An affirmative indication or judgment that the supplier of a product or service has met the requirements of the relevant specifications, contract, or regulation; also, the state of meeting the requirements.
Compliance Fee	\$0.15 per animal unit is required whenever the updated annual manure management plan (MMP) is submitted.

Confinement	An area that is 90% roofed and used to hold animals.
Confinement - earthen	Project proposed includes construction, expansion or modification of an unformed manure storage structure (earthen manure storage basin, anaerobic lagoon, etc)..
Confinement Feeding Operations	An animal feeding operation in which animals are confined to areas which are at least 90% covered. There are three types of confinement feeding operations; Permitted, Non-Permitted, and Small-formed Manure Storage.
Confinement - Formed	Project proposed includes construction, expansion or modification of a formed manure storage structure (below the building concrete pit, aboveground tank, etc).
Days in the House –	Means the number of days counted since the department's receipt and acceptance of a construction permit application for a confinement feeding operation. Due to "Kaizen" process, a construction permit application is reviewed at a glance to ensure all the required documents have been included or that the fees have been properly calculated. Therefore, 'Days in the House' do not include the time passed after the department has returned an application package to the applicant for being incomplete. An application for a construction permit for a confinement feeding operation must be submitted to the Central Office. If such application is sent erroneously to the Field Office, Days in the House do not start until the application is received by the Central Office. For a construction permit application at an open feedlot, Days in the house start when the review engineer receives the application, if a pre-application meeting was held. If an open feedlot did not have a pre-application meeting, Days in the house starts when the department receives the construction permit application. If a confinement feeding operation is not required to obtain a construction permit, but it is required to submit a manure management plan to the Field Office, days in the house start on the date when the manure management plan is received by the Field Office.
Design Engineer	The name of the engineer hired by the applicant that has prepared the proposed project.
DNR	Department of Natural Resources
Expanding	A facility that is increasing its animal capacity, animal unit capacity or manure storage capacity
Facility	A site where animal production areas and manure

	storage are located. (e.g. animal confinement operation, open feedlot, dairy)
Facility Detail	All the specific detail of a facility such as address, location, contacts, operations, and storage structures.
Facility ID	A unique number assigned to a facility by the AFO application for identification purposes.
Facility Linking	The ability to join more than one facility and all of its sub components into one facility.
Facility Name	A name provided by the facility owner that uniquely identifies the facility.
Facility Owner	A person who owns part of or all of a facility.
Facility Splitting	The ability to split a facility and its sub components into more two facilities.
Feedlot	A relatively small, restricted area for the controlled feeding of animals that tends to concentrate large amounts of animal wastes that cannot be absorbed by the soil and, hence, may be carried to nearby streams or lakes by rainfall runoff.
FO	Field Office
FO Contact	The name of the Environmental Specialist or Inspector at the Field Office, that is assisting with a construction permit application.
Field Offices	FO 1 – Manchester FO 2 – Mason City FO 3 – Spencer FO 4 – Atlantic FO 5 – Des Moines FO 6 - Washington
Field Office Compliance	A web application that allows for the scheduling and tracking of environmental compliance activities, so status is easily available to the public.
Global Footer	The bottom portion of each page containing various off-site links.
Global Header	The top portion of all pages containing AFO links available on every page.
HUC	Hydrologic Unit Code
Indemnity Fee	A one time fee of \$0.10 per animal unit based on the capacity of the operation required at the time of filing an original manure management plan (MMP).

Mail Merge	An indication of whether the individual should be included on mailings to the facility.
Manure Application Rate	The rate at which manure is applied in gallons per acre.
Manure Management Plan	<p>A tool for producers to use when they plan their fertilizer and manure placement to optimize crop production. An MMP is required for confinements with greater than 500 animal units and constructed or expanded after May 31, 1985. The plan is filed annually.</p> <p>In the database there are old manure management plans; PIndex Plans; NMP (Nutrient Management Plan); 200A</p>
Manure Storage Unit	Any structure used to store manure, including long-term storage inside the housing unit. Includes above and below-ground structures.
Matrix Required	To a confinement feeding operation applying for a construction permit in a county with a valid adopted Construction Evaluation Resolution (CER). In addition, the master matrix is required for confinements that meet certain criteria. Please visit the DNR's official website (Animal Feeding Operations) for additional information.
Meets Threshold	For the purpose of this database, threshold means the limit for which engineering documents prepared and sealed by a professional engineer licensed in the state of Iowa, are required if applying for a construction permit application at a confinement feeding operation that uses formed storage. This includes a swine farrowing and gestating operation with an animal unit capacity (AUC) of 1,250 animal units (AU) or more; a swine farrow-to-finish operation with an AUC of 2,750 AU or more; a cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more; or any other confinement feeding operation with an AUC of 3,000 AU or more. Threshold is also referred in Iowa Code section 459 as "threshold requirements" or as "threshold engineering requirements" in the DNR's construction permit application form.
MMP	Manure Management Plan
Modifying –no change in capacity	A facility that is proposing to modify its manure handling system or modifying a confinement feeding operation structure without increasing its animal capacity, animal unit capacity or volume of manure to be stored.
Monitoring Required	This is done on a case-by-case basis, as a condition of

	the construction permit, construction approval or As-Built approval.
New	Project proposed is for a new facility
NMP	Nutrient Management Plan
Nutrient Management Plan	A tool for producers to use when they plan their fertilizer and manure placement to optimize crop production. An NMP is required for open lots with 1,000 animal units or more.
NOV	Notice of Violation
NOV Letter	A letter stating that a rule violation was committed by the recipient
NPDES	National Pollutant Discharge Elimination System
NPDES Permit	A written operation permit of the department pursuant to the federal National Pollutant Discharge Elimination System program, to allow the operation of a CAFO under specified conditions.
One Stop	Environmental Facilities Database; a warehouse that receives information from Program databases every night
Open Feedlot	Is unroofed or partially roofed area with no vegetation or residue ground cover for confined animals.
Open Feedlot - AT	An open feedlot that proposes alternative technologies to manage their manure and runoff.
Open Feedlot - Conventional	An open feedlot that proposes a settled open feedlot effluent basin (SOFEB) to manage their manure and runoff.
PSD	Prevention of Significant Deterioration
PWS	Public Water System
Review Engineer	The name of the DNR's review engineer that is working on an application for a construction permit.
Secondary Containment Barrier	A structure constructed around a confinement feeding operation structure that does not meet the minimum separation distance requirements to a watersource, major watersource, known sinkhole, etc.
Site Header	The page fragment containing facility information and various links just under the Global Header but above the main body of a page containing facility-specific information.
SSO	Sanitary Sewer Overflow

Tier	A group of geographical divisions that form a row across the map.
Tier Ranking	A rating system that uses regulatory deficiencies as a means to rank animal feeding facilities required to have a MMP. Tier one ranking indicates an overall good compliance history. Tier two ranking indicates a facility with minor compliance deficiencies. Tier ranking of three indicates a facility with major compliance deficiencies.
UST	Underground Storage Tank

## ***Address abbreviation***

Below are some common abbreviations for an address.

St.	Street
Ave.	Avenue
Rd.	Road
RR	Rural Route
PO Box	Post Office Box
Hwy.	Highway
Ln.	Lane
Dr.	Drive
Blvd.	Boulevard
Apt.	Apartment
Ste.	Suite
E	East
W	West
S	South
N	North
#	Number